

TRICOFLEX

Industrial Catalogue
2023



UK / IRELAND

Ordering service

Céline DESROUSSEaux

☎ +33 (0)3 26 73 67 70

celine.desrousseaux@tricoflex.com



Sales Manager (UK / Ireland)

Ian MARSHALL

Mob: +44 (0)7807 719226

ian.marshall@tricoflex.com

Area sales representative

(Midlands & North)

Chris HODSON

Mob: +44 (0)7971 441108

chris.hodson@tricoflex.com

BENELUX

Ordering service

Patricia BOCQUILLON

☎ +33 (0)3 26 73 67 68

patricia.export@tricoflex.com



Sales manager

Laura BRINKHUIS

☎ +33 (0)3 26 73 67 83

laura.brinkhuis@tricoflex.com

NORDIC AND BALTICS COUNTRIES

Ordering service

Patricia BOCQUILLON

☎ +33 (0)3 26 73 67 68

patricia.export@tricoflex.com



Sales manager

Jorge MENA

Mob: +46 (0)761 17 32 95

jorge.mena@tricoflex.com

ITALY

Ordering service

Patricia BOCQUILLON

☎ +33 (0)3 26 73 67 68

patricia.export@tricoflex.com



Sales manager

Davide PINI

☎ +39 392 97 80 500

davide.pini@tricoflex.com

OTHER COUNTRIES

17 avenue Jean Juif

CS 70015

F-51301 VITRY-LE-FRANÇOIS CEDEX

Ordering service

Patricia BOCQUILLON

☎ +33 (0)3 26 73 67 68

patricia.export@tricoflex.com

Sales manager

Laura BRINKHUIS

☎ +33 (0)3 26 73 67 83

laura.brinkhuis@tricoflex.com

Summary

Choice of hose by application	4 ➔ 5
European Regulation Reach no 1907/2006	6
Information on compliance for food contact	7
Table of food compatibility	8 ➔ 9
Auto rewind reels (equipped) and accessories	11 ➔ 14
Metal reels (unequipped)	15
Sprayers Viton	16
Hoses for industry	17 ➔ 103

Classification of tubes in alphabetical order	page		page
Airsoft Performance	26	Spirabel® S.I.	89
Airtop	35	Spirabel® S.I.S.E.	77
Cristal	24	Spirabel® S.N.T.-S	80
Gaine GA1	92	Spirabel® S.N.T.-A	78
Gaine GA2	93	Spirabel® Vendanges S.F.	79
Gaine GA3	94	Spire Acier	83
Gaine Spirabel® PU A1 <i>Polyurethane</i>	95	Super Nobelair®	87
Gaine Windflex® 400 PU <i>Polyurethane</i>	96	Super Nobelair® Soft	29
Gaine Windflex® 400 AS <i>Polyurethane</i> <small>new</small>	97	Super Thermoclean® 40	28
Gaine Windflex® 600 <i>Polyurethane</i>	98	Super Tress-Nobel® 80 bar	57
Gaine Windflex® 805 EH <i>Polyurethane</i> <small>new</small>	99	Super Tricoflat®	41
Gaine Windflex® 805 PU <i>Polyurethane</i>	100	T 1947 <i>SP & SUPER SP</i>	68-69
Gaine Windflex® 805 AL <i>Polyurethane</i> <small>new</small>	101	T 694 <i>R.I.A.</i>	70
Gaine Windflex® 1308 <i>Polyurethane</i> <small>new</small>	102	TCF	71
Gaine Windflex® 1500 <i>Polyurethane</i>	103	Technobel®	20
GPL ISO 3821 <i>Rubber (NBR)</i>	37	Technobel® PU <i>Polyurethane</i>	46
Nobelair® AS	65	Thermoclean® 100 Antimicrobial	45
Nobelair® AS/R	27	Thermoclean® AL 20	54
Nobelair® AS/R EN ISO 5359	30	Tress-Nobel® 20 bar	56
Primabel®	31	Tress-Nobel® 40 bar	40
Profiline-Aqua Plus <i>Polyethylene</i>	66	Tricoclair® AL	40
Profiline-Aqua Plus Soft <i>Polyethylene</i>	51	Tricoflat®	18-19
Profiline-Aqua Extra Soft <i>TPE</i>	52	Tricoflex®	66-67
Propa-Tress®	53	Tricoflex® Performance	61
Rubvyl	36	Tricoflex® R	60
Soudage ISO 3821 <i>Rubber (SBR)</i>	64	Tricoflex® Yachting	62
Spirabel® Balnéo/Piscine	38	Tricofuel®	63
Spirabel® G.M.D.S.	88	Tubclair® AL	44
Spirabel® L.D.	81	Tube PA calibré <i>Polyamid</i>	22-23
Spirabel® M.D.S.E.	76	Tube PU calibré <i>Polyurethane</i>	32-33
Spirabel® M.D.S.E. Performance	84	Tube PTFE <i>Teflon</i>	34
Spirabel® M.D.S.F. AL	85	Vitryl® <i>Silicon</i>	47
Spirabel® M.D.S.O.	82	Washing guns	50
Spirabel® PUA2 <i>Polyurethane</i>	86		58

Chemical resistance chart of hoses	104 ➔ 109
Product index	110 ➔ 119
Terms of sales	121 ➔ 123
A la carte hoses (Procedure and order form)	Cover flap

Tube selection by application

Application	Key features	Name of hoses	Hose range	MWP/ BP*class	Nominal bore available	Col. of C.R.C.**	Page
Multipurpose hoses		TRICOCLAIR® AL	Classic	20/60	4 → 50	A	18-19
		TCF		13/40	6,3 → 50	A	20
Compressed air		AIRSOFT PERFORMANCE	PERFORMANCE	16/64	6,3 → 25	B	26
	Pneumatic tools	NOBELAIR® AS	FULLSOFT	16/64	7 → 12	A/B	27
	Heavy duty: garages, ...	SUPER NOBELAIR® SOFT	FULLSOFT	15/60	6,3 → 25	A	28
	Pneumatic tools	SUPER NOBELAIR®	Classic	20/60	6,3 → 25	A	29
	Respirators	NOBELAIR® AS/R		15/60	6 → 19	A/B	30
	Pneumatic tools	AIRTOP		15/45	16 → 25		35
	Building trade (compressors)						
		NOBELAIR® AS/R EN ISO 5359		15/60	6,3	A	31
Medical gas	Comply with EN ISO 5359 standard						
		TUBE PA CALIBRÉ		36/133	2 → 13	F	32-33
Pneumatics	High resistance	TUBE PU CALIBRÉ		10/30	2,5 → 8	C	34
	High flexibility						
Gas and Welding		PROPA-TRESS®		20/80	6,3 → 9	A/B	36
	Welding, heating	GPL ISO 3821 (EN 559)		20/60	8 → 10		37
	LPG, gas welding	SOUDAGE ISO 3821 (EN 559)		20/60	6 → 10		38
	Gas welding oxy-acetylene						
Agricultural spraying		TRESS-NOBEL 20 BAR		20/60	8 → 25	A	40
	Class 20 bar	TRESS-NOBEL 40 BAR		40/120	6,3 → 25	A	40
	Class 40 bar	SUPER TRESS-NOBEL 80 BAR		80/240	10 → 19	A	41
	Class 80 bar						
Fuels & oils		TRICOFUEL®	Classic	13/40	6,3 → 30	B	44
	Clear	TECHNOBEL® PU	FULLSOFT	20/60	6 → 32	AC/AB	45
	Very flexible	TECHNOBEL®	Classic	20/60	6 → 50	D/A	46
	Available in large sizes						
Chemical products		TUBE PTFE		20/60	2 → 10	H	47
	Vast chemical compatibility of up to 250°C						
Food industry		PROFILINE AQUA PLUS	KIWA 21 DW	16/48	10 → 25	E	51
	No transfer of taste	PROFILINE AQUA PLUS SOFT	KIWA 21 DW	16/48	13 → 25	E	52
	No transfer of taste	PROFILINE AQUA EXTRA SOFT	KIWA 21 DW	10/30	13 → 25		53
	No transfer of taste						
Food cleaning		THERMOCLEAN® 100 ANTIMICROBIAL	THERMOSOFT	30/90	13 → 25	B	54
	Food cleaning up to 100°C	THERMOCLEAN® AL 20		33/100	12 → 19	B	56
	Up to 20 bar under 70°C	SUPER THERMOCLEAN® 40		40/120	12	B	57
	Up to 40 bar under 70°C						
Water hoses		TRICOFLEX® PERFORMANCE	PERFORMANCE	8/20	12,5 → 25	A	60
	Water supply and delivery, irrigation	TRICOFLEX®	Classic	8/20	12,5 → 50	A	61
	Water supply and delivery, irrigation	TRICOFLEX® R		8/24	19 → 25	A	62
	Gantry installations in green houses	TRICOFLEX® YACHTING		9/23	12,5 → 19	A	63
	Water supply and delivery, irrigation	RUBVYL®		7/18	13 → 25	A	64
	Building trade	IRRIFLEX		8/20	12,5 → 25	A	65
	Professionnal watering	PRIMABEL®		6/16	12,5 → 30	A	66
	Agriculture / Building trade	TRICOFLAT®		7/21	25 → 200	A	68-69
	Agriculture / Building trade	SUPER TRICOFLAT®		12/36	45 → 150	A	68
Fire fighting hoses	Semi-rigid hoses for fire-fighting trucks	T1947		15/45	25,5		72
	Fire fighting reels	T694		7/25	19 → 33		73


























*WP = Working Pressure - MBP = Guaranteed minimum burst pressure (bar)

**C.R.C.: chemical resistance chart
pages 106 to 109

Transfer of pressurised fluids

Reinforced hoses and semi-rigid tubes

Tube selection by application

	Application	Key features	Name of hoses	Hose range	MWP/ BP*class	Nominal bore available	Col. of C.R.C.**	Page
Transfer of pressureless fluids Unreinforced flexible tubes	Multipurpose	Food quality	 TUBCLAIR® AL		--	2 → 60	A	22-23
			 CRISTAL		--	4 → 38	A	24
	Food industry	Use up to 200°C	 VITRYL® (SILICONE)		--	3 → 20	G	50
High capacity suction/discharge Hoses reinforced with a spiral groove	Multipurpose	Small pumps	SPIRABEL® L.D.		6/18	20 → 102	A	76
		Pumps, irrigation	 SPIRABEL® S.I.		6/18	20 → 102	A	77
		Industrial standard	 SPIRABEL® S.N.T-S		5/15	20 → 151	A	78
		Transfer of grains and low abrasive powders	 SPIRABEL® S.N.T-A		7/22	40 → 60	A	79
		Multipurpose	SPIRABEL® G.M.D.S.		5/15	25 → 152	A	81
		Refrigerated food liquids	 SPIRABEL® M.D.S.F. AL		6/12	63 → 151	A	82
		Severe use at low temperature	SPIRABEL® M.D.S.E.		5/15	40 → 151	A	84
		Abrasion resistant external spiral	SPIRABEL® M.D.S.E. PERFORMANCE		4/12	76 → 151	A	85
		Severe use for fuels and oils	SPIRABEL® M.D.S.O.		9/15	25 → 102	B	86
		Steel spiral reinforcement	 SPIRE ACIER		11,5/34,5	12 → 150	A	87
	Special duty	Seed drills	SPIRABEL® S.I.S.E.		4/12	30 → 60	A	80
		Wine making and food liquids	 SPIRABEL® VENDANGES S.F.		7/21	40 → 120	A	83
		Swimming-pools and spas	SPIRABEL® BALNEO/PISCINE		7/21	32 → 63	A	88
		High abrasive products and hydrocarbons	 SPIRABEL® PU A2 (POLYURÉTHANE)		4/12	40 → 100	C	89
Suction/discharge of air, gas, dust and chips Sheath with thin wall and reinforcement with a spiral groove	Flexible ductings in PVC	Air, fumes	GAINE GA1			25 → 63	A	92
		Air, fumes, agricultural spraying	GAINE GA2			20 → 250	A	93
		Automatic pumps, water delivery	GAINE GA3			12 → 40	A	94
	Flexible ductings in PU	Grain and powders	 GAIN SPIRABEL® PU A1			30 → 200	C	95
		Air, gas, dust and chips (steel spiral)	 WINDFLEX® 400 PU			51 → 350	C	96
		Air, gas, dust and chips (steel spiral)	 WINDFLEX® 400 AS			51 → 350	C	97
		Sawdust and chips	 WINDFLEX® 600 PU AL			40 → 305	C	98
		Granules, mud, sand, cement						
			 WINDFLEX® 805 EH			180 200	C	99
			 WINDFLEX® 805 PU			30 → 500	C	100
			 WINDFLEX® 805 AL			32 → 500	C	101
			 WINDFLEX® 1308 PU			40 → 200	C	102
			 WINDFLEX® 1500			40 → 100	C	103

REACH No. 1907/2006

REACH is an EU regulation adopted to better protect human health and environment against the risks related to chemical substances.

Tricoflex, as a producer of soft PVC hoses, needs to comply with this regulation, we thus pay very close attention to its evolution. To guarantee the conformity of our products to this regulation, TRICOFLEX® stays informed of its regular updates of the different lists of substances that are subjected to authorization, restrictions of use and/or declarative obligations required by REACH and works in close collaboration with our raw material suppliers.

These regular updates concern primarily 2 substances lists :

1_ The Candidate List of substances of very high concern for Authorisation (or Candidate list, or SVHC list)

<https://echa.europa.eu/en/web/guest/candidate-list-table>

It concerns the substances that are known or potentially carcinogenic (cat. 1A or 1B), mutagenic (cat. 1A or 1B), toxic for reproduction (cat. 1A or 1B), persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB), and the substances that arouse an equivalent level of concern having probable serious effects to human health and/or the environment.

These substances are not prohibited to use and can thus still be put on the market. However, they are subject to an obligation for the suppliers to communicate information if the SVHC substance is present at more than 0,1% of the article mass.

2_ The Authorization list (Annex XIV)

<https://echa.europa.eu/en/authorisation-list>

After a regulatory procedure, the SVHCs of the Candidate List can be included in the Annex XIV to become subjected to authorization. These substances may not be commercialized, nor used after a given date, unless their specific use has been authorized.

This is particularly the case since 2015/02/21 for certain plasticizers in PVC, as stated here below:

- bis (2-ethylhexyl) phthalate (DEHP) - CAS No. 117-81-7
- diisobutyl phthalate (DIBP) – CAS No. 84-69-5
- dibutyl phthalate (DBP) – CAS No. 84-74-2
- benzyl butyl phthalate (BBP) - CAS No. 85-68-7

Consequently, our whole range of products are henceforth guaranteed to be free from these plasticizers, and particularly DEHP-free.

Furthermore, since 2017 for most of our products we guarantee a rate of phtalates of <0.1% which is indicated by the phtalates free logo:



Information on compliance for food contact

TRICOFLEX certifies that the following hoses are designed for contacts with food products that are compatible with the appointed simulants (A, B, C, D).

Thermoplastic hoses : European Regulation (EU) No. 10/2011 and its amendments

	A	B	C	D
	Ethanol 10%	Acetic acid 3%	Ethanol 20%	D1 = Ethanol 50% D2 = Vegetable oil
Tricoclair® AL	•	•	•	D1
TCF	•	•	•	D1
Cristal	•	•	•	
Tubclair® AL	•	•	•	D1
Profiline Aqua Plus	•	•	•	D1 and D2
Profiline Aqua Plus Soft	•	•	•	D1 and D2
Profiline Aqua Extra Soft	•	•	•	D1
Thermoclean® AL 20	•	•	•	
Super Thermoclean® 40	•	•	•	
Thermoclean® 100 Antimicrobial	•	•	•	
Spirabel® SI	•	•	•	
Spirabel® SNT-S	•	•	•	D1
Spirabel® MDSF AL	•	•	•	D1
Spirabel® Vendanges SF	•	•	•	D1
Spire Acier	•	•	•	D1
Spirabel® PUA2		Nonfat dried foodstuffs only		
Spirabel® PUA1		Nonfat dried foodstuffs only		
Windflex® 600 PU AL		Nonfat dried foodstuffs only		
Windflex® 805 PU AL		Nonfat dried foodstuffs only		

Silicon hoses : French order from 25/11/1992

	A	B	C	D
	Ethanol 10%	Acetic acid 3%	Ethanol 20%	D1 = Ethanol 50% D2 = Vegetable oil
Vitryl	•	•	•	D1

According to the European Regulation N°1935/2004, those hoses are identified with the glass + fork logo:

For an easier identification, the number of the Regulation is joined to the glass + fork logo, both on the marking of the hose and on the label of the coil:



F. Doosterlinck
CEO

Food compatibility chart of hoses



TRICOLAIR AL	TOF	CRISTAL	TUBCLAIR AL	PROFILINE AQUA PLUS	PROFILINE AQUA PLUS SOFT	PROFILINE AQUA EXTRA SOFT	THERMOCLEAN® AL 20	SUPER THERMOCLEAN® AL 40	THERMOCLEAN® 100 <small>ANTIMICROBIAL</small>	SPIRABEL® SJ	SPIRABEL® SNT-S	SPIRABEL® MDSF AL	SPIRABEL® VENDANGES SF	SPIRABEL® ACIER	SPIRABEL® PUA1	SPIRABEL® PUA2	WINDFLEX® 600 PU AL & 805 AL	VITRYL®

Non-alcoholic beverages

Mineral waters	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Juices and Nectars	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Juices, nectars and fruit musts with pulp	●	●		●	●	●	●			●	●	●	●	●				●
Lemonades, sodas	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Syrups	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Vegetable juice	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Coffee	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Tea	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Infusions	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Liquid chocolate	●	●		●	●	●				●	●	●	●					●

Drinks with less than 5% alcohol

Ciders	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Musts	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Beers	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Bitters	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●

Drinks with 6% to 20% alcohol

Wines	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Spirits, liqueurs	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●
Cream liqueurs	●	●		●	●	●				●	●	●	●					●

Drinks with 20% to 50% alcohol

Spirits, liquors	●	●		●	●	●				●	●	●	●					●
------------------	---	---	--	---	---	---	--	--	--	---	---	---	---	--	--	--	--	---

Drinks with more than 50% alcohol

Spirits, liquors				●	●													
------------------	--	--	--	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--

Bakery products

Cereals, starches and yeast														●	●	●		
Flour and semolina														●	●	●		
Dried or fresh fat-containing substances				●	●													
Dried or fresh nonfat substances														●	●	●		
Cocoa powder														●	●	●		
Cocoa paste				●	●													

Made products

Chocolate and chocolate-coated products				●	●													
With fatty substances				●	●													
As a non-greasy dough	●	●	●	●	●	●	●	●	●	●	●	●	●					●
Sugar and sugar products in solid form														●	●	●		
Molasses, sugar syrups, honey	●	●	●	●	●	●	●	●	●	●	●	●	●					●

Fruits and vegetables

Dried or dehydrated														●	●	●		
Jams, compotes, puree	●	●	●	●	●	●	●	●	●	●	●	●	●					●
Preparations in water or in juice	●	●	●	●	●	●	●	●	●	●	●	●	●					●
Preparations in oil				●	●													
Preparations in alcohol	●	●		●	●	●				●	●	●	●					●

Food compatibility chart of hoses

[illegible]



**AUTOREEL, MINIREEL, WATERREEL,
METAL REELS, VITON® SPRAYERS**



REELS, SPRAYERS



11

TRICOCLAIR® AL, TCF, TUBCLAIR®, CRISTAL

MULTIPURPOSE HOSES

17

AIRSOFT PERFORMANCE, NOBELAIR® AS, SUPER NOBELAIR® SOFT,
SUPER NOBELAIR®, NOBELAIR® AS-R, NOBELAIR® AS-R ISO 5359,
TUBES PA, TUBES PU, AIRTOP, PROPA-TRESS®, GPL, SOUDAGE

COMPRESSED AIR, MEDICAL GAS, GAS & WELDING

25

TRESS-NOBEL® 20 BAR, TRESS-NOBEL® 40 BAR,
SUPER TRESS-NOBEL® 80 BAR

AGRICULTURAL SPRAYING

39

TRICOFUEL®, TECHNOBEL® PU, TECHNOBEL®, TUBES PTFE

FUELS & OILS, CHEMICAL PRODUCTS

43

VITRYL®, PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT,
PROFILINE AQUA EXTRA SOFT, WASHING GUNS,
THERMOCLEAN® 100 ANTIMICROBIAL, THERMOCLEAN® AL 20,
SUPER THERMOCLEAN® 40

FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING

49

TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R,
TRICOFLEX® YACHTING, RUBVYL®, PRIMABEL®,
TRICOFLAT®, SUPER TRICOFLAT®

WATER HOSES

59

T694, T1947

FIRE-FIGHTING HOSES

69

SPIRABEL® RANGE : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL,
VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, SPIRE ACIER,
BALNÉO, PUA2

SPIRAL HOSES

73

DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

89

CHEMICAL RESISTANCE CHART OF HOSES

99

INDEX PRODUCTS BY ARTICLE CODE

105

GENERAL CONDITIONS OF SALES

113

AutoReel Pro

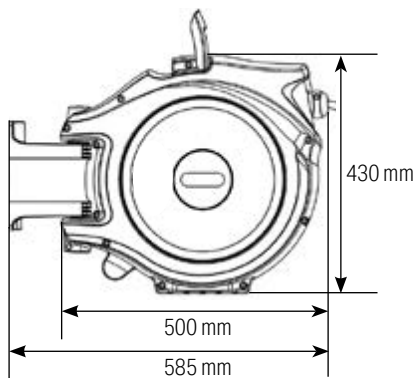
Multipurpose hose reel
air, water, (40° max), herbicides, pesticides...



Equipped with
TECHNOBEL® PU



Shell and
Wall bracket in
polypropylene
high resistance

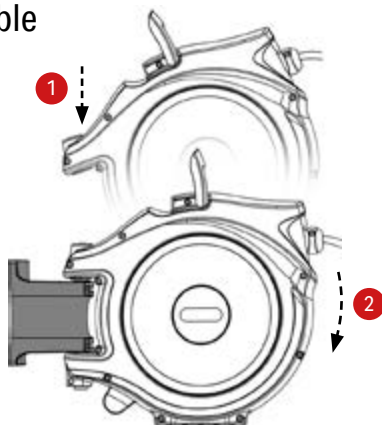


With security
locked system



With brass fittings
BSP 1/4" B.S.P.T.

Removable



Servicing workshops



Garages



Assembly factories



Process industries



Joinery and cabinetwork



Spraying vehicles



Swivel 180°



Automatic hose rewind



20 m
+2 m*



9,5 mm
14,5 mm



10 bar



40 bar



8 kg

* Feeder hose with BSP 1/4" thread

Ref

One unit per pack (Wall bracket included)

2501 0000

Additional Wall Bracket with fixing screw

Z 71028

MiniReel Pro

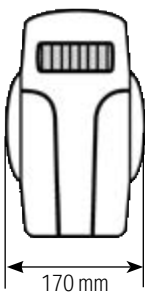
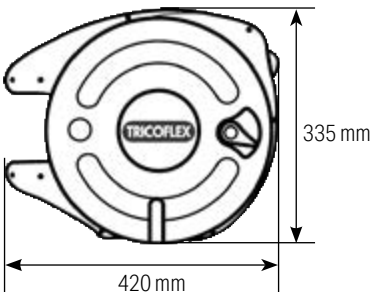
Hose reel for compressed air



Equipped with
**SUPER NOBELAIR®
SOFT**



Shell and
Wall bracket in
polypropylene
high resistance



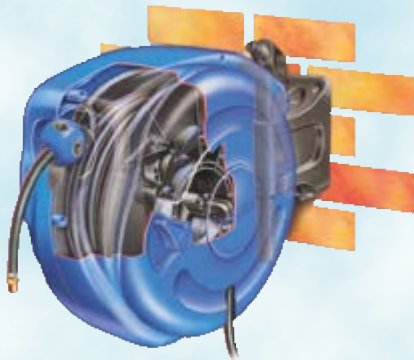
With security
locked system



With brass fittings
BSP 1/4" B.S.P.T.



Removable



Swivel 180°



10 m
+ 1,5 m*



8 mm
13 mm



10 bar



40 bar



4 kg

* Feeder hose with BSP 1/4" thread

One unit per pack (Wall bracket included)

Additional Wall Bracket with fixing screw

Ref

2486 3460

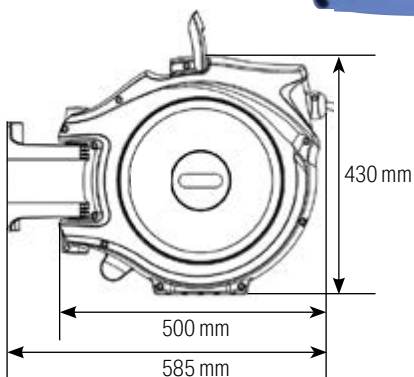
Z 71023

WaterReel Pro

Hose reel for water (Max. 50°C)



Shell and
Wall bracket in
polypropylene
high resistance



With security
locked system

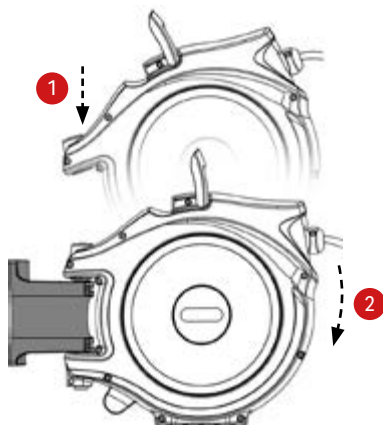
With quick connectors
and metal gun



Swivel 180°



Removable



Supplied accessories



Automatic hose rewind



18,5 m
+2 m*



12 mm
16,5 mm



8 bar



24 bar



8 kg

* Feeder hose with quick connectors.

Ref

One unit per pack (Wall bracket included)

2502 0000

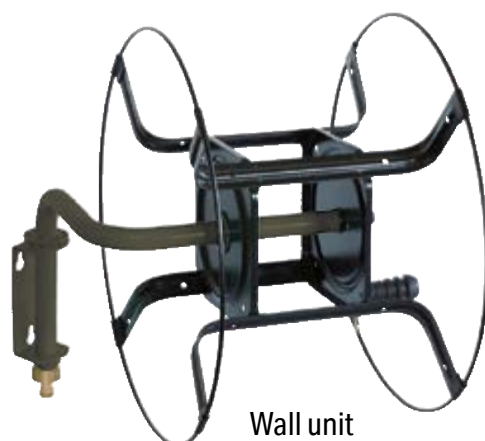
Additional Wall Bracket with fixing screw

Z 71028

Metal hose reels



Venus



Wall unit



4x4

	Wall unit	Venus	4x4
Capacity equipped with ø 15 mm	70 m	70 m	120 m
Capacity equipped with ø 19 mm	50 m	50 m	85 m
Water flow	25 mm	25 mm	25 mm
Dimensions (cm) L x W x H	48 x 46 x 36 cm	45 x 49 x 63 cm	95 x 57 x 90 cm
Use	Multi-use: watering/spraying, car-washing, storage in industrial environments, etc.	Multi-use: watering/spraying, large-surface irrigation, storage in industrial environments, etc.	Multi-use: watering/spraying, car-washing, etc.
Feature	Wall fixation. Swivel.	2 wheels ø 150 mm	4 wheels ø 260 mm (2 swivel)
Supplied accessories	2 tap connectors	2 tap connectors	2 tap connectors Accessory storage shelf
Ref	059504	059506	059505


Sprayers

For acid or alkaline solutions, solvents, hydrocarbons, agricultural and wood treatment products.



Viton® is a mark of Dupont Dow Elastomers.

	5102P0000	5310 1240	5311 1240
Capacity	1,25 L	5 L	7 L
Washer	Viton®	Viton®	Viton®
Outer pack quantity	6 pieces	1 piece	1 piece

	TRICOCLAIR® AL, TCF, TUBCLAIR®, CRISTAL	MULTIPURPOSE HOSES	17
	AIRSOFT PERFORMANCE, NOBELAIR® AS, SUPER NOBELAIR® SOFT, SUPER NOBELAIR®, NOBELAIR® AS-R, NOBELAIR® AS-R ISO 5359, TUBES PA, TUBES PU, AIRTOP, PROPA-TRESS®, GPL, SOUDAGE	COMPRESSED AIR, MEDICAL GAS, GAS & WELDING	25
	TRESS-NOBEL® 20 BAR, TRESS-NOBEL® 40 BAR, SUPER TRESS-NOBEL® 80 BAR	AGRICULTURAL SPRAYING	39
	TRICOFUEL®, TECHNOBEL® PU, TECHNOBEL®, TUBES PTFE	FUELS & OILS, CHEMICAL PRODUCTS	43
	VITRYL®, PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT, PROFILINE AQUA EXTRA SOFT, WASHING GUNS, THERMOCLEAN® 100 ANTIMICROBIAL, THERMOCLEAN® AL 20, SUPER THERMOCLEAN® 40	FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING	49
	TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R, TRICOFLEX® YACHTING, RUBVYL®, PRIMABEL®, TRICOFLAT®, SUPER TRICOFLAT®	WATER HOSES	59
	T694, T1947	FIRE-FIGHTING HOSES	69
	SPIRABEL® RANGE : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, SPIRE ACIER, BALNÉO, PUA2	SPIRAL HOSES	73
	DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®	DUCTING HOSES	89
		CHEMICAL RESISTANCE CHART OF HOSES	99
		INDEX PRODUCTS BY ARTICLE CODE	105
		GENERAL CONDITIONS OF SALES	113

TRICOCLAIR® AL

Classic



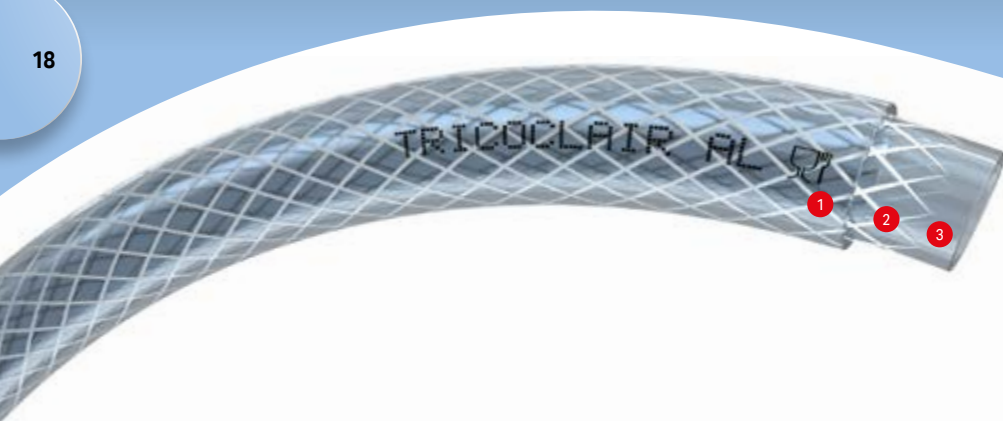
(EU) N°10/2011



bar



18



- 1 Class A flexible PVC
- 2 Polyester reinforcement
- 3 Class A flexible PVC

HIGH PERFORMANCE, MULTIPURPOSE REINFORCED, FOOD QUALITY HOSE.

High resistant three layer design, in flexible, transparent, class A PVC, with high resistant polyester fibre reinforcement.

APPLICATIONS

Multipurpose hose suitable for numerous applications: Supplying compressed air for tools and machines, carrying industrial gases, foodstuffs, certain chemical products (industry, medical, laboratories), Supplying water (water treatment)

SERVES ALL SECTORS OF INDUSTRY INCLUDING :

Automotive industry, assembly plants, plastics industry, food production industry, construction, garages (for cars, lorries & agricultural machinery), woodworking, etc.

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING

TRICOCLAIR AL Ø inn x Ø out / Ø inn x th. (EU) No 10/2011 [WP] BAR [Batch number]

ADVANTAGES

The unique formula of the materials used in TRICOCLAIR® AL provides it with flexibility, long service life, higher UV resistance and greater transparency. It is suitable for contact with food products and even alcohols up to 50 % by volume can be carried. For its part, the balanced reinforcement provides high pressure resistance with little deformation. Thus, it can withstand long and frequent pressure impulse a pressure cycles.

CONNECTORS

Quick connectors, swaged connectors, barbed or serrated connectors. Band, worm drive, screw or butterfly clamps.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A. TRICOCLAIR® AL possesses broad chemical compatibility. Amongst the products compatible under certain temperature and concentration conditions, we mention: certain acids (hydrochloric, acetic, boric, citric, nitric, phosphoric...); certain bases (sodium hydroxide, potassium...); bleach; sea water; salts (certain chlorides, nitrates, sulphates, phosphates, carbonates...).



With presentation disc to Ø 13mm

TRICOCLAIR® AL

Classic










(EU) N°10/2011



bar

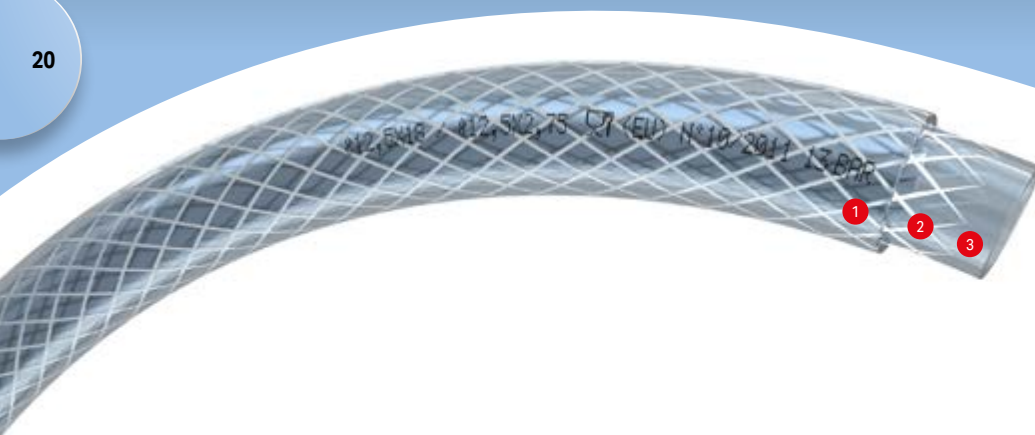


19

 mm	+/- mm	 mm	+/- mm	 mm	 g/m	 bar	 bar	 mm	Transparent		
									25 m	50 m	100 m
4	+/- 0,2	8	+/- 0,4	2	45	81	27	22		050174	
6	+/- 0,2	12	+/- 0,4	3	102	66	22	36	054281	050400	
6,3	+/- 0,2	11	+/- 0,4	2,35	76	66	22	39	050084		
7	+/- 0,3	13	+/- 0,5	3	108	63	21	46	050095		
8	+/- 0,3	14	+/- 0,5	3	124	60	20	54	050106	050196	
9	+/- 0,3	15	+/- 0,5	3	135	60	20	66	054966	054955	
10	+/- 0,4	16	+/- 0,6	3	146	60	20	74	050117	050207	049960
12	+/- 0,5	19	+/- 0,6	3,5	204	60	20	90	050128	050218	
13	+/- 0,5	20	+/- 0,7	3,5	218	60	20	101	050695	050264	
15	+/- 0,5	23	+/- 0,7	4	291	60	20	120	050130	050310	103572
19	+/- 0,6	27	+/- 0,8	4	346	60	20	157	050289	050276	050277
20	+/- 0,6	28	+/- 0,8	4	361	60	20	170	050141	054270	
25	+/- 0,7	34	+/- 0,9	4,5	500	48	16	219	050466	050455	
25	+/- 0,7	36	+/- 0,9	5,5	631	52	17	225	050152	054145	
30	+/- 0,8	41	+/- 1,0	5,5	748	40	13	277	050163	050253	
32	+/- 0,8	42	+/- 1,0	5	697	36	12	320	050490	050488	
38	+/- 1,0	48	+/- 1,2	5	810	36	12	420	054933	054156	
40	+/- 1,0	52	+/- 1,2	6	1040	32	10	460	050365		
50	+/- 1,0	64	+/- 1,2	7	1467	28	9	600	050376		

TCF

20



- 1 Flexible PVC
- 2 Polyester reinforcement
- 3 Flexible PVC

MULTIPURPOSE HOSE.

Three layer design, in flexible, clear PVC, with high resistant polyester fibre reinforcement.

APPLICATIONS

Multipurpose hose suitable for numerous applications: compressed air hose for supplying pneumatic tools for equipping assembly work stations, wall-mounted or mobile dispensers, compressors

ALL SECTORS OF ACTIVITY

Automotive industry, assembly plants, plastics industry, construction, garages (for cars, lorries & agricultural machinery), woodworking etc.

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING

Ø inn x Ø out / Ø inn x t. (EU) No 10/2011 SIM A,B,C,D1 [WP] BAR [Batch number]

ADVANTAGES

The materials used in TCF provide it with flexibility, high transparency, UV protection. It is suitable for contact with food products and even alcohols up to 50 % by volume can be carried.

Moreover, its balanced reinforcement provides good resistance to pressure and deformation at low pressures.

CONNECTORS







Quick connectors, swaged connectors, barbed or serrated connectors. band, worm drive, screw or butterfly clamps.

CHEMICAL RESISTANCE

TCF is suitable for various acids and alkalis. For more information please consult table pages 106 to 109 column A.

WARNING

Hydrocarbons make TCF quickly degrade. Please consult us.

	+/-		+/-						Transparent		Blue	Red
									25 m	50 m	25 m	25 m
6,3	+/- 0,3	11	+/- 0,5	2,35	77	40	13	50	149621	149622		
8	+/- 0,4	13	+/- 0,6	2,5	100	40	13	65	149635	149648	125675	
10	+/- 0,4	15	+/- 0,6	2,5	120	40	13	80	149651	149664	125691	125688
12,5	+/- 0,5	18	+/- 0,7	2,75	160	40	13	110	149677	149680	125717	125704
16	+/- 0,8	22	+/- 0,8	3	217	40	13	145	149693	149706		
19	+/- 0,8	26	+/- 0,8	3,5	300	40	13	174	149712	149725		
25	+/- 0,8	33	+/- 1,0	4	444	40	13	260	149738	149741		
30	+/- 0,8	40	+/- 1,0	5	670	36	12	300	149754	149767		
32	+/- 0,8	41	+/- 1,0	4,5	629	36	12	350	149770	149783		
38	+/- 1,0	47	+/- 1,2	4,5	733	33	11	400	149796	149809		
40	+/- 1,0	50	+/- 1,2	5	865	26	8	420	149812			
50	+/- 1,0	60	+/- 1,2	5	1056	24	8	500	149825			



TUBCLAIR® AL



(EU) N°10/2011



22

TUBCLAIR AL

1 Food grade transparent PVC

SINGLE LAYER MULTIPURPOSE FOOD QUALITY TUBE IN FLEXIBLE, TRANSPARENT, CLASS A PVC.

APPLICATIONS

Carrying various non-pressurised liquids: water, certain acids and bases, foodstuff liquids such as milk, fruit juices, beer, wines... Carrying powdered foodstuffs

SECTORS OF ACTIVITY

Industry in general, food production industry, laboratories

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING

TUBCLAIR AL (EU) No 10/2011 [Batch number]

ADVANTAGES

Designed with the finest quality materials, TUBCLAIR®AL is a flexible, very transparent, lightweight hose suitable for foodstuffs. Alcohols up to 50% by volume can even be carried, up to a temperature of 40°C. Amongst its other qualities, it has an excellent service life and benefits from higher UV protection.

TUBCLAIR® AL is available in a comprehensive range of diameters.





CONNECTORS

Barbed or serrated type connectors with band or butterfly clamps. Swaged fittings are unsuitable.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A. TUBCLAIR®AL possesses broad chemical compatibility. Amongst those compatible under certain temperature and concentration conditions, we mention: certain acids (hydrochloric, sulphuric...); certain bases (sodium hydroxide, potassium...); bleach; sea water; salts (certain chlorides, nitrates, sulphates, phosphates, carbonates...).

WARNING : Usage for hydrocarbon leads to a loss of flexibility which can cause TUBCLAIR® AL hose degradation. Please contact us for further details.

 mm	+/- mm	 mm	 mm	+/- mm	 g/m	25 m		50 m		100 m	
						ref	by box*	ref	by box*	ref	by box*
2	+/-0,2	4	1	+/-0,2	11					147263	300m
3	+/-0,2	5	1	+/-0,2	15			147289	300m		
3	+/-0,2	6	1,5	+/-0,2	26			147305	300m		
4	+/-0,2	6	1	+/-0,2	19			147318	300m	147321	300m
4	+/-0,2	7	1,5	+/-0,2	32			147334	250m		
4	+/-0,2	8	2	+/-0,2	46			147347	150m		
5	+/-0,2	7	1	+/-0,2	23			147566	250m		
5	+/-0,2	8	1,5	+/-0,2	37	147363	200 m	094493	300m		
5	+/-0,3	9	2	+/-0,2	54					147376	300m
6	+/-0,3	8	1	+/-0,2	28			147389	200m		
6	+/-0,3	9	1,5	+/-0,2	43			147392	300m		
6	+/-0,3	10	2	+/-0,2	60			147405	300m		
6	+/-0,3	12	3	+/-0,2	102			147418	150m		
7	+/-0,4	10	1,5	+/-0,2	50			147421	300m		
8	+/-0,4	11	1,5	+/-0,2	53	147453	250 m	147466	200m	147479	300m
8	+/-0,5	12	2	+/-0,2	77			147495	300m		
9	+/-0,5	12	1,5	+/-0,2	61			147511	300m		
9	+/-0,5	13	2	+/-0,2	82			147524	200m		
10	+/-0,5	13	1,5	+/-0,2	65			147537	200m		





*Quantity per box = Minimum order

TUBCLAIR® AL

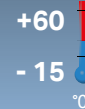


(EU) N°10/2011



 mm	+/- mm	 mm	 mm	+/- mm	 g/m	Transparent	
						25 m	50 m
10	+/-0.5	14	2	+/-0.2	90	072000	072011
10	+/-0.5	16	3	+/-0.3	146		096130
12	+/-0.5	15	1,5	+/-0.2	76		096143
12	+/-0.5	16	2	+/-0.2	105	072022	072033
12	+/-0.5	18	3	+/-0.3	169		096169
13	+/-0.5	17	2	+/-0.2	112		096185
13	+/-0.5	19	3	+/-0.3	180		096198
14	+/-0.5	18	2	+/-0.2	120		096201
15	+/-0.5	19	2	+/-0.2	127	072044	
15	+/-0.5	20	2,5	+/-0.2	164	065430	065441
15	+/-0.5	21	3	+/-0.3	202		096243
16	+/-0.5	20	2	+/-0.2	135		096269
16	+/-0.5	21	2,5	+/-0.2	174		096272
16	+/-0.5	22	3	+/-0.3	215		096285
18	+/-0.5	22	2	+/-0.2	145		096301
18	+/-0.5	23	2,5	+/-0.2	195	072066	072077
19	+/-0.5	24	2,5	+/-0.3	198		096327
19	+/-0.5	25	3	+/-0.3	255		096330
19	+/-0.8	26	3,5	+/-0.3	290		096343
19	+/-0.8	27	4	+/-0.3	338		096356
20	+/-0.8	24	2	+/-0.3	162		096362
20	+/-0.8	25	2,5	+/-0.3	215	072088	072090
20	+/-0.8	26	3	+/-0.3	252		096375
22	+/-0.8	28	3	+/-0.3	275		096388
25	+/-1	31	3	+/-0.3	320	096562	096420
25	+/-1	32	3,5	+/-0.3	380	072101	072112
25	+/-1	33	4	+/-0.4	425		096433
27	+/-1	33	3	+/-0.4	330		096462
30	+/-1	37	3,5	+/-0.4	430		096488
30	+/-1	38	4	+/-0.4	500	072123	072134
32	+/-1	40	4	+/-0.4	545	096620	
32	+/-1	42	5	+/-0.4	705	096633	
35	+/-1	42	3,5	+/-0.4	510	096646	
35	+/-1	43	4	+/-0.4	573	072145	
38	+/-1	48	5	+/-0.5	789	096662	
40	+/-1.5	48	4	+/-0.5	648	096681	
40	+/-1.5	49	4,5	+/-0.5	736	072167	
40	+/-1.5	50	5	+/-0.5	826	096694	
50	+/-1.5	60	5	+/-0.5	1045	072180	072191
60	+/-1.5	70	5	+/-0.5	1200	072202	

CRISTAL



24

(EU) N°10/2011 - Sim A, B, C

1 Food grade transparent PVC

SINGLE LAYER PVC TUBE IN FLEXIBLE, TRANSPARENT PVC.

APPLICATIONS

Carrying non fatty foodstuffs or light alcohols, non-presurised aqueous liquids

SECTORS OF ACTIVITY

Industry in general

SIMULANTS A, B, C

- fruit juices
- wines



MARKING

(EU) N° 10/2011 Sim. A, B, C [Batch number]

CONNECTORS

Barbed or serrated connectors with band or butterfly clamps. Swaged fittings are unsuitable.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.
Not hydrocarbon resistant.

	+/- mm		+/- mm		g/m	Transparent		
						25 m	50 m	100 m
4	+/-0,2	6	1	+/-0,2	19			141040
4	+/-0,2	7	1,5	+/-0,2	31		069141	
5	+/-0,2	8	1,5	+/-0,2	37		069167	
6	+/-0,3	9	1,5	+/-0,2	43		069286	
7	+/-0,4	10	1,5	+/-0,2	49		069290	
8	+/-0,4	10	1	+/-0,2	34		069326	
8	+/-0,4	11	1,5	+/-0,2	54		069328	
8	+/-0,5	12	2	+/-0,2	75		141266	
9	+/-0,5	12	1,5	+/-0,2	60		093910	
10	+/-0,5	13	1,5	+/-0,2	66		069330	
10	+/-0,5	14	2	+/-0,2	90		141369	
10	+/-0,5	16	3	+/-0,3	147		141372	
12	+/-0,5	15	1,5	+/-0,3	77		069340	
12	+/-0,5	16	2	+/-0,3	106		069360	
15	+/-0,8	19	2	+/-0,3	130		141919	
16	+/-0,8	20	2	+/-0,3	138		141501	
16	+/-0,8	21	2,5	+/-0,3	176		141505	
19	+/-0,8	24	2,5	+/-0,3	205		141510	
20	+/-0,8	26	3	+/-0,3	260		141633	
25	+/-1,0	31	3	+/-0,3	317	141662		
30	+/-1,0	37	3,5	+/-0,4	442	141720		
38	+/-1,0	48	5	+/-0,5	818	141817		



**AIRSOFT PERFORMANCE, NOBELAIR® AS,
SUPER NOBELAIR® SOFT, SUPER NOBELAIR®,
NOBELAIR® AS-R, NOBELAIR® AS-R ISO 5359, TUBES PA,
TUBES PU, AIRTOP, PROPA-TRESS®, GPL, SOUDAGE**

COMPRESSED AIR, MEDICAL GAS, GAS & WELDING

25

TRESS-NOBEL® 20 BAR, TRESS-NOBEL® 40 BAR,
SUPER TRESS-NOBEL® 80 BAR

AGRICULTURAL SPRAYING

39

TRICOFUEL®, TECHNOBEL® PU, TECHNOBEL®, TUBES PTFE

FUELS & OILS, CHEMICAL PRODUCTS

43

VITRYL®, PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT,
PROFILINE AQUA EXTRA SOFT, WASHING GUNS,
THERMOCLEAN® 100 ANTIMICROBIAL, THERMOCLEAN® AL 20,
SUPER THERMOCLEAN® 40

FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING

49

TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R,
TRICOFLEX® YACHTING, RUBVYL®, PRIMABEL®,
TRICOFLAT®, SUPER TRICOFLAT®

WATER HOSES

59

T694, T1947

FIRE-FIGHTING HOSES

69

SPIRABEL® RANGE : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL,
VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, SPIRE ACIER,
BALNÉO, PUA2

SPIRAL HOSES

73

DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

89

CHEMICAL RESISTANCE CHART OF HOSES

99

INDEX PRODUCTS BY ARTICLE CODE

105

GENERAL CONDITIONS OF SALES

113

AIRSOFT PERFORMANCE



26

AIRSOFT PERFORMANCE #19X26,5/#19X3,75 16BAR



- 1 Extra-soft smooth black non-staining and oil resistant PVC
- 2 Intermediate layer in extra-soft black PVC
- 3 Polyester reinforcement
- 4 Intermediate layer in extra-soft black PVC
- 5 Extra-soft red oil resistant PVC

HIGHLY FLEXIBLE HOSE FOR COMPRESSED AIR.

Five layers, in extra-flexible PVC, with high strength polyester reinforcement.

APPLICATIONS

Pneumatic tools, equipment of assembly workshops, wall mounted reels, carts and compressors

SECTORS OF ACTIVITY

Automotive industry, plastics industry, assembly factories, workshops for cars, lorries and agricultural vehicles, woodwork

MARKING

AIRSOFT Ø inn x Ø out / Ø inn x th. 16 BAR [Batch number]

ADVANTAGES

AIRSOFT PERFORMANCE sets a new standard of flexibility for compressed-air use. Its innovative and exclusive structure, the result of years of TRICOFLEX's know-how, offers an exceptional hose solution that combines extreme manageability with unyielding resistance. AIRSOFT PERFORMANCE works discreetly even in cold weather.

CONNECTORS

Quick connectors, barbed or serrated grooved connectors. Band, worm drive, screw or butterfly clamps. Cap connectors. Swaged fittings can be used if they do not damage the hose.

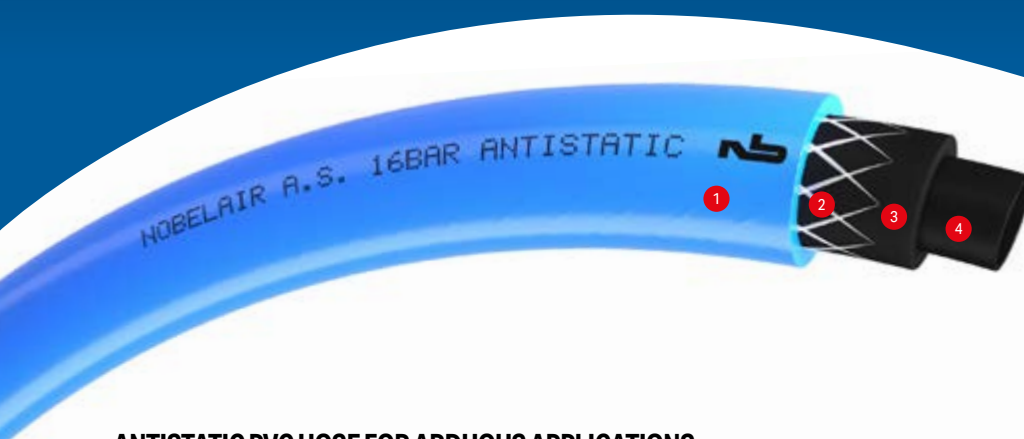
CHEMICAL RESISTANCE

See table pages 106 to 109 column B.



	+/- mm		+/- mm		g/m		bar		bar		mm	Black	
												25 m	50 m
6,3	+/- 0,3	11	+/- 0,3	2,35	77	64	16	35				100050	100051
8	+/- 0,4	13	+/- 0,4	2,5	100	64	16	50				100052	100053
9	+/- 0,5	14,5	+/- 0,5	2,75	123	64	16	50				100054	100055
10	+/- 0,5	15,5	+/- 0,5	2,75	134	64	16	70				100056	100057
12,7	+/- 0,6	19	+/- 0,6	3,15	190	64	16	100				100058	100059
16	+/- 0,6	23	+/- 0,6	3,5	254	64	16	140				100060	100061
19	+/- 0,8	26,5	+/- 0,8	3,75	323	64	16	140				100062	100063
25	+/- 1,0	33,5	+/- 1,0	4,25	469	64	16	240				100064	100065

NOBELAIR® AS



- 1 Oil and grease resistant matt blue outer covering
- 2 Textile reinforcement
- 3 Extra flexible PVC intermediate layer
- 4 Antistatic black PVC inner wall

ANTISTATIC PVC HOSE FOR ARDUOUS APPLICATIONS,

comprising three thermoplastic layers, reinforced with a high resistant textile polyester braiding. Its inner lining is smooth and conducts electricity.

APPLICATIONS

Hose designed specially for compressed air supply in arduous conditions and/or hazardous environments: compressed air sets for pneumatic tools, small compressors, Paint spraying (air hose)

SECTORS OF ACTIVITY

Automotive industry, plastics industry, assembly factories, garages (for cars, lorries and agricultural vehicles), woodwork

Continuous use up to
70°C at 6 bar (80° at peak)
Resistivity <10⁶ Ω/m
complies with NF EN ISO 8031

MARKING

NOBELAIR A.S. 16 BAR ANTISTATIC [Batch number]

ADVANTAGES

NOBELAIR® AS is a top of the range hose linking comfort and resistance in use to the most arduous conditions, its extremely flexible, lightweight and user friendly. Its considerable thickness ensures a maintained hose profile. Its coating offers protection in the event of contact with aggressive products (oils, greases, hydrocarbons, paints). The well balanced reinforcement provides it with excellent dimensional stability.

The capability of NOBELAIR® AS to dissipate electrostatic currents is a guarantee of safety in the event of usage in hazardous environments (paint booths, presence of hydrocarbons...). This capability is achieved by the addition of carbon directly into the hose material.

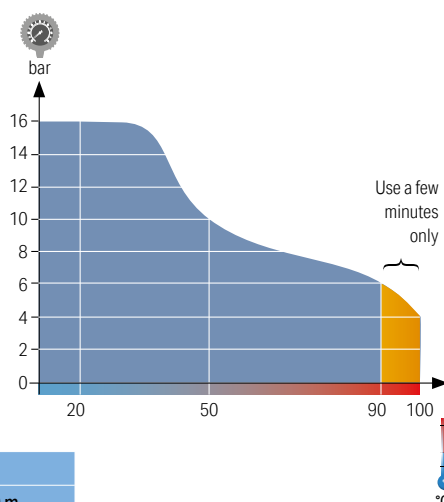
CONNECTORS

WARNING: Metal connectors must be used to maintain electrical continuity. Quick connectors, barbed or serrated insert or grooved connectors. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 106 to 109 column B for outer layer, col. A for inner layer.

Continuous use up to 90°C
at 6 bar (100° at peak)



	+/- mm		+/- mm		+/- mm		g/m		bar		°C	Blue	
												20 m	40 m
7	+/-0.4	14	+/-0.4	3,5	153	64	16	42				147624	
8	+/-0.4	15	+/-0.4	3,5	168	64	16	48				147640	147655
9	+/-0.5	16	+/-0.5	3,5	183	64	16	54				147666	147679
10	+/-0.5	17,5	+/-0.5	3,75	216	64	16	60				147682	147695
12	+/-0.6	20	+/-0.6	4	267	64	16	72				147708	147711

SUPER NOBELAIR® SOFT



28

SUPER NOBELAIR SOFT #19X26,5/#19X3,75 15BAR

1

2

3

- 1 Extra-flexible blue PVC
- 2 Polyester reinforcement
- 3 Extra-flexible black PVC

HIGHLY FLEXIBLE HOSE FOR COMPRESSED AIR.

Three layers, in extra-flexible PVC, with high strength polyester reinforcement.


APPLICATIONS

Pneumatic tools, equipment of assembly workshops, wall mounted reels, carts and compressors

SECTORS OF ACTIVITY

Automotive industry, plastics industry, assembly factories, workshops for cars, lorries and agricultural vehicles, woodwork

MARKING

SUPER NOBELAIR SOFT Ø inn x Ø out / Ø inn x th. 15 BAR  [Batch number]

ADVANTAGES

Compounds specially developed for SUPER NOBELAIR® SOFT give it a high flexibility even at low temperature. This property, associated with lightness, makes the use of this hose easier; therefore the hose is particularly appreciated by users of pneumatic tools both outdoors and indoors. PVC structure eliminates any risk of cracks (flaws of a lot of rubber hoses), making this hose long lasting.








Thanks to a well balanced reinforcement, SUPER NOBELAIR® SOFT has a high pressure resistance with little distortion under pressure. So it can withstand long and frequent impulse cycles.

CONNECTORS

Quick connectors, barbed or serrated grooved connectors. Band, worm drive, screw or butterfly clamps. Cap connectors. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

	+/- mm		+/- mm		mm		g/m		bar		bar		mm	Blue	
														25 m	50 m
6,3	+/- 0,3	11	+/- 0,3	2,35	81	60	15	45		148362		147753			
8	+/- 0,4	13	+/- 0,4	2,5	106	60	15	56		148375		147766			
9	+/- 0,5	14,5	+/- 0,5	2,75	131	60	15	63		148388		147772			
10	+/- 0,5	15,5	+/- 0,5	2,75	141	60	15	70		148391		147785			
12,7	+/- 0,6	19	+/- 0,6	3,15	200	60	15	89		147956		148162			
16	+/- 0,6	23	+/- 0,6	3,5	265	60	15	112		158059		158062			
19	+/- 0,8	26,5	+/- 0,8	3,75	337	60	15	145		158075		158088			
25	+/- 1,0	33,5	+/- 1,0	4,25	493	60	15	210		158091		158104			

SUPER NOBELAIR®

Classic

60
bar

+60

- 15

°C



- 1 Flexible beige PVC
- 2 Polyester reinforcement
- 3 Flexible black PVC

29

HOSE FOR COMPRESSED AIR SUPPLY.

Three layer design, in extra flexible PVC, with high resistant polyester fibre reinforcement.

APPLICATIONS

Pneumatic tools, equipment of assembly workshops, wall mounted reels, carts and compressors

SECTORS OF ACTIVITY

Automotive industry, plastics industry, assembly factories, garages (for cars, lorries and agricultural vehicles), woodwork

MARKING

SUPER NOBELAIR  20 BAR [Batch number]

ADVANTAGES

The balanced reinforcement of SUPER NOBELAIR® enables it to withstand high pressure with minimal distortion. Thus, it can withstand extended and frequent pressure impulse cycles.

The composition of this flexible and light hose provides it with good resistance to impacts and distortion.

Moreover, the PVC composition eliminates any risks of cracks appearing (particular defect of rubbers), thus improving safety and a long service life.

CONNECTORS






Quick connectors, barbed or serrated connectors.

Band, worm drive, screw or butterfly clamps.

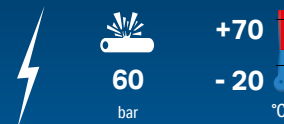
Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

	+/- mm		+/- mm		g/m		bar		mm	Beige		
										25 m	50 m	100 m
6,3	+/- 0,3	11	+/- 0,3	2,35	85	60	20	45			198022	
7	+/- 0,4	12	+/- 0,4	2,5	90	60	20	49		198051		
8	+/- 0,4	13	+/- 0,4	2,5	107	60	20	56		198093	198106	198119
9	+/- 0,5	14,5	+/- 0,5	2,75	132	60	20	63			198148	
10	+/- 0,5	15,5	+/- 0,5	2,75	143	60	20	70		198177	198180	
12,7	+/- 0,6	19	+/- 0,6	3,15	205	60	20	89		198212	198225	198238
16	+/- 0,6	23	+/- 0,6	3,5	284	60	20	112		198254	198267	
19	+/- 0,8	26,5	+/- 0,8	3,75	352	60	20	145		198296	198309	198312
25	+/- 1,0	33,5	+/- 1,0	4,25	515	60	20	210		198338	198341	

NOBELAIR® AS/R



- 1 Matt blue or green oil resistant PVC outer covering
- 2 4 Inner intermediate PVC layer
- 3 Textile reinforcement in polyester
- 5 Antistatic black inner PVC wall

REINFORCED HOSE FOR BREATHING AIR.

In accordance with EN 14593 and EN 14594 standards. Antistatic, heat resistant and 5 layer construction with polyester reinforcement.

APPLICATIONS

Specially designed for compressed air supply to individual protective apparatus which are in accordance with the EN 14593 and EN 14594 standards

SECTORS OF ACTIVITY

Nuclear power plants, petrochemical industry, paint application in building and manufacturing

Resistivity $< 10^6 / \text{m}$
complies with NF EN ISO 8031

MARKING

NOBELAIRAS/R for EN14593 & EN14594 Ø inn x Ø out Breathing air hose / Antistatic / Heat resistant / Decontamination proof [Year of fabrication] [Batch number]

ADVANTAGES

NOBELAIR® AS/R hose is a top of the range hose, linking comfort of use to resistance in the most arduous conditions. Its extremely flexible, lightweight and user friendly.

Its considerable thickness ensures a retained profile. The well balanced reinforcement provides it with excellent dimensional stability.

The antistatic inner layer of NOBELAIR® AS/R breathing air hose is a guarantee of safety if use in hazardous environments (paint booths, presence of hydrocarbons...). This capability is permanent, obtained by the addition of carbon directly into the hose material.

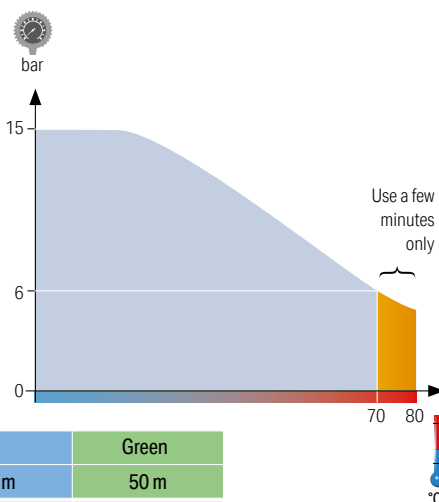
CONNECTORS

WARNING








Metal connectors must be used to maintain electrical continuity: Quick connectors, barbed or serrated connectors. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 106 to 109 column B for outlayer, col. A for innerlayer.



Continuous use up to 70°C
at 6 bar (80° at peak)

 mm	\pm mm	 mm	\pm mm	 mm	 g/m	 bar	 bar	 mm	Blue		Green
									25 m	50 m	50 m
6	± 0.5	12	± 0.5	3	103	60	15	40		092843	093651
8	± 0.5	14	± 0.5	3	126	60	15	50	092856	092869	
10	± 0.5	16	± 0.5	3	148	60	15	65	092872	092885	093653
12,7	± 0.6	19	± 0.6	3,15	192	60	15	80		092901	
19	± 0.8	28	± 0.8	4,5	405	60	15	120		092927	

NOBELAIR® AS/R EN ISO 5359



- 1 Matt PVC outer covering
- 2 Inner intermediate PVC layer
- 3 Textile reinforcement in polyester
- 4 Antistatic black inner PVC wall
- 5

REINFORCED HOSE FOR MEDICAL GAS. IN ACCORDANCE WITH EN ISO 5359 STANDARDS.

APPLICATIONS

Specially designed for transfer of medical gas.

SECTORS OF ACTIVITY

Hospitals, ambulances

Resistivity < 10⁶ Ω/m
complies with NF EN ISO 8031

MARKING

EN ISO 5359 ANTISTATIQUE [Medical gas type]  [Batch number]

ADVANTAGES

NOBELAIR® AS/R EN ISO 5359 hose is a top of the range hose, linking comfort of use to resistance in the most arduous conditions. Its extremely flexible, lightweight and user friendly. Its considerable thickness ensures a retained profile.

The well balanced reinforcement provides it with excellent dimensional stability. The antistatic inner layer is a guarantee of safety if used in hazardous environments. This capability is permanent, obtained by the addition of carbon directly into the hose material.








CONNECTORS

WARNING

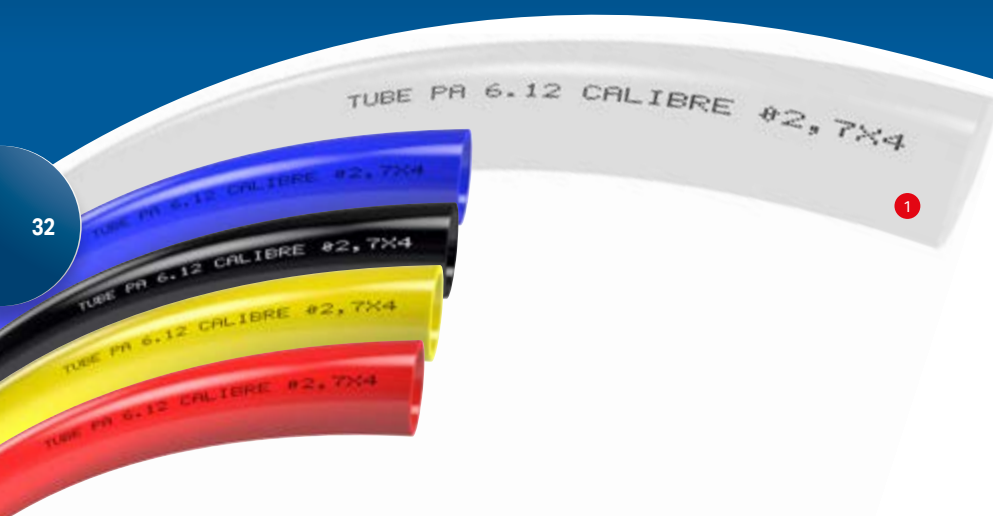
Metal connectors must be used to maintain electrical continuity: Quick connectors, barbed or serrated connectors. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

	 mm	+/- mm	 mm	+/- mm	 mm	 g/m	 bar	 bar	 mm	50 m	
Air	6,3	+/- 0,3	12,4	+/- 0,3	3	106	60	15	25	125450	Black + White
Oxygen	6,3	+/- 0,3	12,4	+/- 0,3	3	106	60	15	25	125451	White
Nitrous oxide	6,3	+/- 0,3	12,4	+/- 0,3	3	106	60	15	25	125454	Blue
Empty	6,3	+/- 0,3	12,4	+/- 0,3	3	106	60	15	25	125455	Yellow

TUBE PA CALIBRÉ POLYAMIDE



1 Yellow, blue, green, red, black or white polyamide

HIGH PRECISION CALIBRATED POLYAMIDE TUBE.

Mono layer design in flexible polyamide, translucent or colored. Smooth inner and outer surfaces.

APPLICATIONS

Pneumatic controls, transfer of fluids and liquids under pressure: chemical products, fuel and lubricants, lacquers and solvents (please consult us)

SECTORS OF ACTIVITY

Used for automatic functions on all types of machines: concerns numerous industries using assembly machines, packaging lines... laboratories

MARKING

TUBE PA 6.12 CALIBRE Ø inn x Ø out [Batch number]

ADVANTAGES

In addition to being very light, the TUBE PA provides excellent mechanical resistance to impact, fatigue, pulsing, flexing, abrasion and cutting. Its robustness gives it excellent performance under vacuum.

An active calibration process ensures its excellent dimensional accuracy.

TUBE PA is made of polyamide. The characteristics of this material ensure good general chemical resistance and excellent impermeability to gases. Its low friction factor is provided by a very smooth texture of the inner and outer surfaces.











Varied colours help to identify the different networks easily. Packaging in a cardboard cassette facilitates storage.

CONNECTORS

Shut off connectors. P.C.L. type connectors.

CHEMICAL RESISTANCE

See table pages 106 to 109 column F.

Reels		(1) Ø 320 mm x l. 270 mm				(2) Ø 450 mm x l. 350 mm				L	White
											
4	6	+/- 0,1	1	+/- 0,1	16,2	96	20	36	1000	073195 (2)	
6	8	+/- 0,1	1	+/- 0,1	22,7	57	14	48	600	073208 (2)	










Warning:
on reel, the hose may include two sections,
so 3 lengths could be connected.

TUBE PA CALIBRÉ POLYAMIDE










33








Coils in carton boxes (except * which are wrapped)

 mm	 mm	\pm mm	 mm	\pm mm	 g/m	 bar	 bar	 mm	White			
									25 m	30 m	50 m	100 m
2	4	$\pm 0,1$	1	$\pm 0,1$	9,7	133	33	24			072606	
2,5	4	$\pm 0,1$	0,75	$\pm 0,1$	8	88	26	34		072490*		
2,7	4	$\pm 0,1$	0,65	$\pm 0,1$	7	80	22	30	072494			
4	6	$\pm 0,1$	1	$\pm 0,1$	16,2	96	20	36	072516	072517*	072617	072718
5,5	8	$\pm 0,1$	1,25	$\pm 0,1$	26,7	65	16	50		072728*		
6	8	$\pm 0,1$	1	$\pm 0,1$	22,7	57	14	48	072538	072539*	072630	072731
8	10	$\pm 0,15$	1	$\pm 0,1$	29,1	45	11	60	072551	072552*		072753
10	12	$\pm 0,15$	1	$\pm 0,1$	35,6	36	9	72	072562		072663	072764*
12	14	$\pm 0,15$	1	$\pm 0,1$	42,1	30	7	84	072584*			072786*
13	16	$\pm 0,15$	1,5	$\pm 0,1$	70,4	41	10	96	072595*			








Coils in carton boxes (except * which are wrapped)

 mm	 mm	\pm mm	 mm	\pm mm	 g/m	 bar	 bar	 mm	Blue		
									25 m	30 m	100 m
4	6	$\pm 0,1$	1	$\pm 0,1$	16,2	96	20	36	073034	073035*	073001
6	8	$\pm 0,1$	1	$\pm 0,1$	22,7	57	14	48	073078		073012
8	10	$\pm 0,15$	1	$\pm 0,1$	29,1	45	11	60	073056	073055	
10	12	$\pm 0,15$	1	$\pm 0,1$	35,6	36	9	72	075251		

Coils in carton boxes (except * which are wrapped)

 mm	 mm	\pm mm	 mm	\pm mm	 g/m	 bar	 bar	 mm	Black		
									25 m	30 m	100 m
2,7	4	$\pm 0,1$	0,65	$\pm 0,1$	7	80	22	30			074542
4	6	$\pm 0,1$	1	$\pm 0,1$	16,2	96	20	36	072876		072810
6	8	$\pm 0,1$	1	$\pm 0,1$	22,7	57	14	48	072854	072855*	072821
8	10	$\pm 0,15$	1	$\pm 0,1$	29,1	45	11	60	072865		072832
10	12	$\pm 0,15$	1	$\pm 0,1$	35,6	36	9	72			074961*

Coils in carton boxes

 mm	 mm	\pm mm	 mm	\pm mm	 g/m	 bar	 bar	 mm	Red		Yellow
									25 m	30 m	25 m
2,7	4	$\pm 0,1$	0,65	$\pm 0,1$	7	80	22	30	075035		075831
4	6	$\pm 0,1$	1	$\pm 0,1$	16,2	96	20	36	072933		
6	8	$\pm 0,1$	1	$\pm 0,1$	22,7	57	14	48		072945	
8	10	$\pm 0,15$	1	$\pm 0,1$	29,1	45	11	60	072955	072954	



TUBE PU CALIBRÉ POLYURETHANE

 +80
- 15
30 | 24
bar °C



34

TUBE PU CALIBRE Ø4X6

1

1 Blue, red, black or translucent polyurethane

HIGH PRECISION CALIBRATED POLYURETHANE TUBE (HARDNESS 98 SHA).

Mono layer design in flexible translucent or coloured polyurethane. Smooth inner and outer surfaces.

APPLICATIONS

Pneumatic controls, transfer of fluids and liquids under pressure: fuel and lubricants, lacquers and some solvents (please consult us)

SECTORS OF ACTIVITY

Used for automatic functions on all types of machines: concerns numerous industries using assembly machines, packaging lines... laboratories

MARKING

TUBE PU CALIBRE Ø inn x Ø out [Batch number]

ADVANTAGES

The calibrated PU tube is remarkable for its flexibility and lightweight. An active calibration process ensures an excellent dimensional accuracy. It has good general chemical resistance, especially for oils, hydrocarbons and some solvents. Its low friction factor is provided by the very smooth texture of the outer and inner surfaces. Varied colours help to identify the different networks easily. Packaging in a cardboard cassette facilitates storage.








CONNECTORS

Shut off connectors. P. C.L. type connectors.

CHEMICAL RESISTANCE








See table pages 106 to 109 column C.

Coils in carton boxes (except * which are wrapped)





		+/- mm		+/- mm					Translucent		Blue	
									25 m	100 m	25 m	100 m
2,5	4	+/- 0,1	0,75	+/- 0,1	9,2	30	10	12			070717	
4	6	+/- 0,1	1	+/- 0,12	19	30	10	15	070762	070775	070788	070791
5,5	8	+/- 0,1	1,25	+/- 0,12	32	27	9	20	070823		070849	
6	8	+/- 0,1	1	+/- 0,12	26,8	27	9	22	071107	071110	071123	071136
7,5	10	+/- 0,15	1,25	+/- 0,15	41,3	24	8	30	072412		072413	072354*
8	12	+/- 0,15	2	+/- 0,15	76,4	27	9	35	070936		070949	

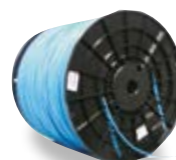


Coils in carton boxes

		+/- mm		+/- mm					Black		Red
									25 m	100 m	25 m
4	6	+/- 0,1	1	+/- 0,12	19	30	10	15	070804		071590
5,5	8	+/- 0,1	1,25	+/- 0,12	32	27	9	20	070865		071629
6	8	+/- 0,1	1	+/- 0,12	26,8	27	9	22	071144	071155	
7,5	10	+/- 0,15	1,25	+/- 0,15	41,3	24	8	30	072425		

Reels (1) Ø 320 mm x l. 270 mm (2) Ø 450 mm x l. 350 mm

		+/- mm		+/- mm					L	Blue
5,5	8	+/- 0,1	1,25	+/- 0,12	32	27	9	20	600	071023



Warning:

on reel, the hose may include two sections, so 3 lengths could be connected.

AIRTOP



- 1 Black SBR cover
- 2 Polyester reinforcement
- 3 Inner surface in black NBR/SBR

RUBBER HOSE REINFORCED WITH TEXTILE FIBRES.

Made of flexible SBR and NBR, with resistant polyester fibre reinforcement.

APPLICATIONS

Compressor equipment used to supply pneumatic tools for worksite use. Normal use.

SECTORS OF ACTIVITY

Construction and civil engineering, industry

MARKING








AIRTOP PS 15 B / PLNE 45 B - Made in CEE trimestre/year of fabrication

ADVANTAGES

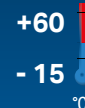
Due to its optimal design, AIRTOP is a hose which offers a very attractive cost/benefit ratio. Suited for all-weather use, it is the ideal hose for supplying compressed air on worksites.

CONNECTORS

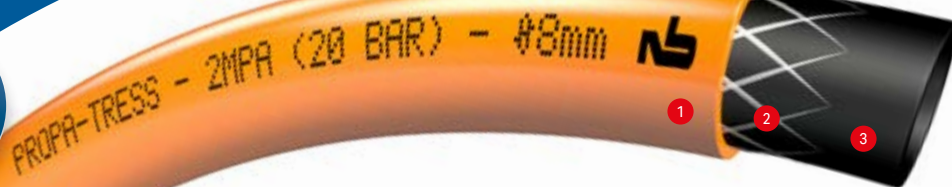
Quick fittings with claw clamps of Ø 29.

	+/- mm		+/- mm		+/- mm		g/m		bar		bar		mm	Black	
														20 m	40 m
16	+/- 0,7	23	+/- 0,7	3,5	310	45	15	160							166557
20	+/- 0,8	29	+/- 0,8	4,5	510	45	15	200					166551	166564	
25	+/- 0,8	34	+/- 0,8	4,5	600	45	15	250							166559

PROPA-TRESS®



36



- 1 Flexible orange PVC coating
- 2 Textile reinforcement
- 3 Flexible black PVC core

REINFORCED FLEXIBLE HOSE FOR TRANSFER OF LIQUEFIED PETROLEUM GAS.

Three layer design, in flexible PVC, with polyester fibre reinforcement.

APPLICATIONS

Welding and associated techniques: Propane supply to blow torches, heated paint booths, heating: infra red heaters for livestock rearing buildings heating, gas transfer (air or industrial gases)

SECTORS OF ACTIVITY

Industry, agriculture, consumer market welding and camping equipment

MARKING

PROPA-TRESS - 2 MPA (20bar) - Ø inn  - [year of manufacturing]*- [Batch number]

*Year of production written in the marking is not a date of substitution.

ADVANTAGES

The qualities of the PVC compound provide the PROPATRESS® hose with flexibility, light weight, excellent resistance to ageing, and also render it impermeable to LPG.










This hose withstands repeated bending and flattening.

CONNECTORS

Barbed or serrated connectors and worm drive or 'O' type clamps. Crimping is possible with non damaging connectors.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A for outer layer, column B for inner layer.

									
mm	mm	mm	mm	g/m	bar	bar	bar	mm	
6,3	+/- 0,4	12	+/- 0,4	2,85	98	80	20	44	Orange
									25 m
									051377
8	+/- 0,5	14	+/- 0,5	3	124	80	20	56	051388
9	+/- 0,5	16	+/- 0,5	3,5	164	80	20	63	051390

GPL ISO 3821 EN 559



- 1 Cover in orange soft NBR/EPDM
- 2 Textile reinforcement
- 3 Inner tube in black soft NBR

FLEXIBLE RUBBER HOSE FOR LPG.

APPLICATIONS

LPG (butane, propane...), gas welding

SECTORS OF ACTIVITY

Industry, building, shipyards

MARKING

NF EN 559 - ISO 3821 - PROPANE - 2 MPa (20 BAR) - Ø inn - TRICOFLEX - [year of manufacturing]* - made in EU








*Year of production written in the marking is not a date of substitution.

ADVANTAGES

This hose complies with ISO 3821 standard. It is very flexible (even at low temperature) and has a very good resistance to abrasion giving a longer service life. It can be used in any climatic conditions.

CONNECTORS

Usual connections for gas welding.
Worm drive or 'O' type ring clamps.
Crimping is possible with non damaging connectors.

 mm	\pm mm	 mm	\pm mm	 mm	 g/m	 bar	 bar	 mm	Orange 20 m
8	$\pm 0,5$	15	$\pm 0,7$	3,5	220	60	20	130	168426
10	$\pm 0,5$	17	$\pm 0,8$	3,5	265	60	20	150	168442

Soudage ISO 3821 EN 559



EN 559 - ISO 3821 - OXYGENE

EN 559 - ISO 3821 - ACETYLENE

- 1 Soft cover in blue or red SBR
- 2 Textile reinforcement
- 3 Inner tube in soft black SBR

RUBBER HOSE FOR WELDING.

Three layer hoses, made of SBR, with textile fibre reinforcement.

APPLICATIONS

Gas welding (oxy-acetylene)

SECTORS OF ACTIVITY

Industry, Building, Shipyards

MARKING

NF EN 559 - ISO 3821 - OXYGENE - Ø inn x Ø out - 2 Mpa (20 BAR) - [year of manufacturing]* - made in CEE

MARKING

NF EN 559 - ISO 3821 - ACETYLENE - Ø inn x Ø out - 2 MPA (20 BAR) - [year of manufacturing]* - made in CEE





*Year of production written in the marking is not a date of substitution.

ADVANTAGES

Those hoses comply with ISO 3821 standard. They are very flexible (even at low temperature) and have a very good resistance to abrasion prolonging hose life. They can be used in any climatic conditions. They are available in simple tube, blue for oxygen, red for acetylene, or in a strong twin-tube construction.

CONNECTORS







Standard welding hose fittings with Worm drive or 'O' type ring clamps. Crimping is possible with non damaging connectors.

 mm	+/-mm	 mm	+/-mm	 mm	 g/m	 bar	 bar	 mm	Red	Blue
									20 m	20 m
6,3	+/-0.4	12	+/-0.6	2,85	130	60	20	63	167881	167894
10	+/-0.5	17	+/-0.7	3,5	230	60	20	130	167923	167936

TWIN HOSES

MARKING

NF EN 559 - ISO 3821 - TWIN - Ø inn x Ø out / Ø inn x Ø out - 2 Mpa (20 BAR) - [year of manufacturing]* - made in CEE

 mm	+/- mm	 mm	+/- mm	 mm	 g/m	 bar	 bar	 mm	Blue + Red	
									20 m	40 m
6 / 6	+/- 0.4	13	+/- 0.6	3.5	350	60	20	65	167965	
10 / 10	+/- 0.5	17	+/- 0.8	3.5	500	60	20	100	167981	167994



**TRESS-NOBEL® 20 BAR, TRESS-NOBEL® 40 BAR,
SUPER TRESS-NOBEL® 80 BAR**

AGRICULTURAL SPRAYING

39

TRICOFUEL®, TECHNABEL® PU, TECHNABEL®, TUBES PTFE

FUELS & OILS, CHEMICAL PRODUCTS

43

VITRYL®, PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT,
PROFILINE AQUA EXTRA SOFT, WASHING GUNS,
THERMOCLEAN® 100 ANTIMICROBIAL, THERMOCLEAN® AL 20,
SUPER THERMOCLEAN® 40

FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING

49

TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R,
TRICOFLEX® YACHTING, RUBVYL®, PRIMABEL®,
TRICOFLAT®, SUPER TRICOFLAT®

WATER HOSES

59

T694, T1947

FIRE-FIGHTING HOSES

69

SPIRABEL® RANGE : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL,
VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, SPIRE ACIER,
BALNÉO, PUA2

SPIRAL HOSES

73

DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

89

CHEMICAL RESISTANCE CHART OF HOSES

99

INDEX PRODUCTS BY ARTICLE CODE

105

GENERAL CONDITIONS OF SALES

113

TRESS-NOBEL®

+60
-15
°C



- 1 Flexible black (or blue PVC for TN 40)
- 2 Polyester reinforcement
- 3 Flexible black PVC

HOSE FOR AGRICULTURAL SPRAYING (20 AND 40 BAR).

Three layer design, in flexible PVC, with high resistant polyester fibre reinforcement.

APPLICATIONS

Herbicide spraying treatment of fields, paths, road-side verges, public parks... Insecticide treatment, liquid fertilizer transfer and spreading. Can also be used for compressed air supply

SECTORS OF ACTIVITY








Agriculture (motorized and towed spraying equipment), agro-chemical industries, public authorities, public works departments

TRESS-NOBEL® 20 BAR



MARKING

TRESS-NOBEL 20 BAR Ø inn x Ø aus / Ø inn x st.  [Batch number]

	+/-		+/-						Black 50 m
8	+/-0.5	13	+/-0.5	2,5	96	60	20	56	158110
10	+/-0.5	15,5	+/-0.5	2,75	133	60	20	70	158123
12,7	+/-0.6	19	+/-0.6	3,15	180	60	20	89	158136
16	+/-0.6	23	+/-0.6	3,5	265	60	20	112	154859
19	+/-0.8	26,5	+/-0.8	3,75	337	60	20	145	158149
25	+/-1.0	33,5	+/-1.0	4,25	493	60	20	210	158178

ADVANTAGES

The balanced reinforcement of TRESS-NOBEL® enables it to withstand high pressure with minimal distortion. Thus, it can withstand extended and frequent pressure impulse cycles.

Furthermore, the PVC composition eliminates any risks of cracks appearing (particular defect of rubbers), thus improving safety and a long service life. TRESS-NOBEL® 20 and 40 bar hose withstands prolonged exposure to all climatic conditions.

CONNECTORS

Quick connectors, swaged connectors, barbed or serrated connectors.








Band, worm drive, screw or 'O' type ring clamps. Rigid plastic barbed connectors with clip clamps. Swaged fittings can be used if they do not damage the hose.

TRESS-NOBEL® 40 BAR



MARKING

TRESS-NOBEL  40 BAR [Batch number]

	+/-		+/-						Blue			Black	
									25 m	50 m	100 m	50 m	100 m
6,3	+/-0.3	12,5	+/-0.3	3,1	112	120	40	44		198699			
8	+/-0.5	14,5	+/-0.5	3,25	151	120	40	56	198438	198660	198673		192724
9	+/-0.5	16	+/-0.5	3,5	181	120	40	63		198467			
10	+/-0.5	17	+/-0.5	3,5	195	120	40	70	198496	198509	198512		192753
12	+/-0.6	20	+/-0.6	4	264	120	40	84	198531	198544	198557	195821	
16	+/-0.6	24	+/-0.6	4	331	115	40	112	198599	198602		192908	
19	+/-0.8	28	+/-0.8	4,5	437	115	40	145	198631	198644		196037	
25	+/-1.0	35	+/-1.0	5	622	90	40	210	192689	192692		198815	

SUPER TRESS-NOBEL®


240
 bar


+60
- 15
 °C


- 1 Coating in flexible dark blue PVC
- 2 4 Double polyester reinforcement
- 3 5 Flexible black PVC

HOSE FOR AGRICULTURAL SPRAYING (80 BAR).

Five layer design, in flexible PVC, with double layer. High resistant polyester fibre reinforcement.

APPLICATIONS

Herbicide spraying treatment of fields, paths, road-side verges, public parks... Insecticide treatment, liquid fertilizer transfer and spreading. Can also be used for compressed air supply

SECTORS OF ACTIVITY

Agriculture (motorized and towed spraying equipment), agro-chemical industries, public authorities, public works departments

MARKING

SUPER TRESS-NOBEL  80 BAR [Batch number]

ADVANTAGES

The double reinforcement incorporated in SUPER TRESS-NOBEL® 80 bar provides it with excellent resistance to pressure and enables it to withstand any possible pressure surges with minimal distortion.







It offers good resistance to ultra violet and in general to all weather conditions. Furthermore, the PVC composition eliminates any risks of cracks appearing (particular defect of rubbers), thus improving safety and a long service life.

CONNECTORS

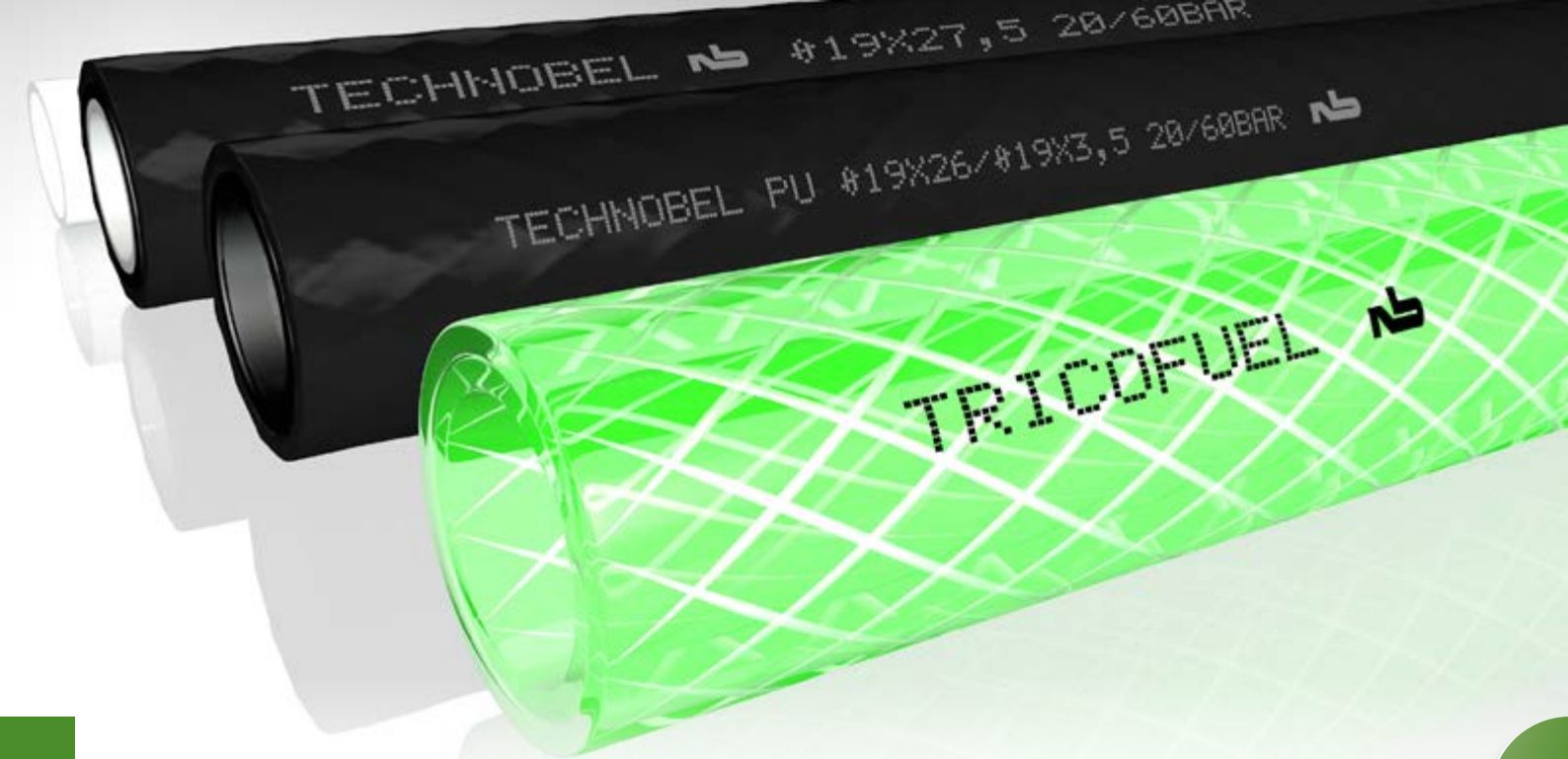
Quick connectors, swaged connectors, barbed or serrated connectors (favor long end fittings). Band, worm drive, screw clamps (double up the clamps). Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

	+/- mm		+/- mm		g/m		bar		bar		mm	Blue	
												50 m	100 m
10	+/- 0.5	19	+/- 0.5	4,5	273	240	80	70				102408	
12	+/- 0.6	22	+/- 0.6	5	356	240	80	84				102440	102453
19	+/- 0.8	30,5	+/- 0.8	5,75	581	240	80	153				102527	





TRICOFUEL®, TECHNOBEL® PU, TECHNOBEL®, TUBES PTFE

FUELS & OILS, CHEMICAL PRODUCTS

43

VITRYL®, PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT, PROFILINE AQUA EXTRA SOFT, WASHING GUNS, THERMOCLEAN® 100 ANTIMICROBIAL, THERMOCLEAN® AL 20, SUPER THERMOCLEAN® 40

FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING

49

TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R, TRICOFLEX® YACHTING, RUBVYL®, PRIMABEL®, TRICOFLAT®, SUPER TRICOFLAT®

WATER HOSES

59

T694, T1947

FIRE-FIGHTING HOSES

69

SPIRABEL® RANGE : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, SPIRE ACIER, BALNÉO, PUA2

SPIRAL HOSES

73

DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

89

CHEMICAL RESISTANCE CHART OF HOSES

99

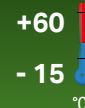
INDEX PRODUCTS BY ARTICLE CODE

105

GENERAL CONDITIONS OF SALES

113

TRICOFUEL®

Classic


- 1 Flexible clear green PVC outer coating hydrocarbons resistant
- 2 Fibre reinforcement
- 3 Smooth clear green PVC core

TRANSPARENT HOSE FOR HYDROCARBONS.

Three layer design, with two clear PVC layers sandwiched around a polyester fibre braiding.

44

ALL FUEL LINES:

For pumps, circulation pumps, burners, vine heaters for frost prevention, heating equipment... Transfer of certain chemical products: petrols, certain acids and certain bases, oils, alcohols... (not suitable for aromatic hydrocarbons)

ALL SECTORS OF ACTIVITY:

Automotive industry, assembly plants, plastics industry, food production industry, construction, Garages (for cars, lorries & agricultural machinery), Woodworking, etc.

MARKING

TRICOFUEL  [Batch number]

ADVANTAGES








The composition of TRICOFUEL® hose material compound is designed specially for hydrocarbon transfer. Thus, it retains its flexibility, even after intensive use. It withstands repeated bending, whilst also offering excellent resistance to ageing. The clear aspect of both the core and the coating provides for easy visual control of fluids transfer.

CONNECTORS

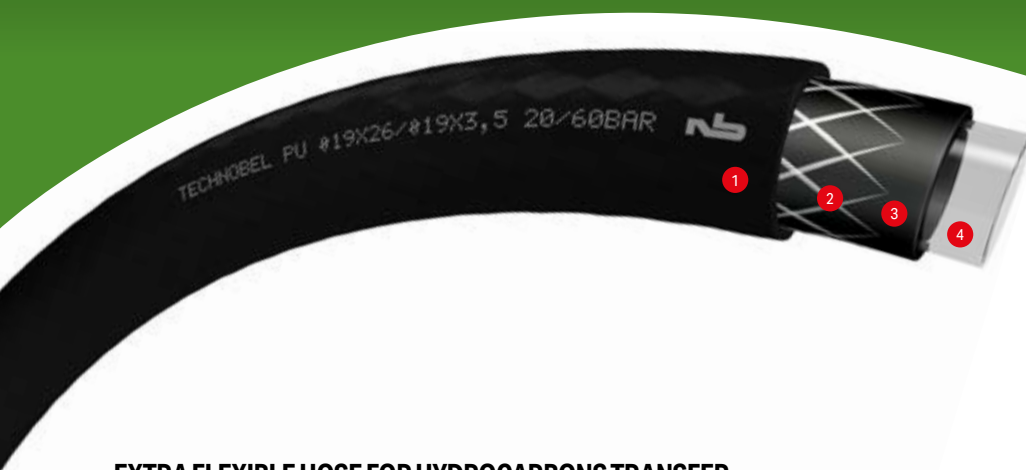
Band, worm drive, screw or 'O' ring clamps. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

TRICOFUEL® is not suitable for fuels unleaded. In this case, choose TECHNOBEL® PU (opposite) or TECHNOBEL® (p.46). See table pages 106 to 109 column B.

 mm	+/- mm	 mm	+/- mm	 mm	 g/m	 bar	 bar	 mm	Green Transparent	
									25 m	50 m
8	+/- 0,5	14	+/- 0,5	3	129	40	13	56	051162	051175
10	+/- 0,5	16	+/- 0,5	3	152	30	10	70	051246	051259
12	+/- 0,6	19	+/- 0,6	3,5	211	30	10	84	051204	051217
15	+/- 0,6	23	+/- 0,6	4	297	30	10	105	052274	
20	+/- 0,8	28	+/- 0,8	4	373	30	10	140	052680	052693
25	+/- 0,8	32,5	+/- 0,8	3,75	420	25	8	175	050843	050856
30	+/- 1,0	39	+/- 1,0	4,5	603	25	8	210	052883	

TECHNOBEL® PU



- 1 Extra flexible black PVC (hydrocarbons resistant) or green
- 2 Polyester reinforcement
- 3 Extra-flexible PVC
- 4 Transparent polyurethane ester

EXTRA FLEXIBLE HOSE FOR HYDROCARBONS TRANSFER.

Four layer thermoplastic design, with an inner polyurethane wall. Reinforcement formed of a high resistant polyester fibre textile braiding.


APPLICATIONS

Transfer of petrols, oils and fuels, and certain solvents, transfer of moderately abrasive products, powders and granules, agricultural spraying (insecticides, pesticides, weed killers, etc), agro-chemical industry

SECTORS OF ACTIVITY

Industry in general, agriculture

MARKING

TECHNOBEL PU Ø inn x Ø out / Ø inn x th. [PS/PLNE] BAR  [Batch number]

ADVANTAGES

The inner polyurethane layer, associated with specially formulated PVC compounds, provide excellent resistance to oils, hydrocarbons and numerous organic solvents. Moreover, the outer layer (black) provides good chemical resistance to hydrocarbons and solvent charged mist created by spraying. Finally, as the polyurethane is very resistant to abrasion and scratches (5 times greater resistance than PVC), mechanically aggressive products can also be transported by TECHNOBEL® PU hose (powders, granules, liquid mixtures...).






CONNECTORS

Quick connectors, barbed or serrated connectors. Band, worm drive, screw or butterfly clamps. Cap connectors.

Rigid plastic barbed connectors with clip clamps. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A for green outer layer, col. B black outer layer, col. C for inner layer.

	+/- mm		+/- mm		g/m		bar		°C	Green		
										50 m	25 m	50 m
6	+/-0,3	11	+/-0,3	2,5	87	60	20	40				153154
8	+/-0,5	14	+/-0,5	3	131	60	20	55		152845	153067	
9	+/-0,5	15	+/-0,5	3	146	60	20	60				153167
10	+/-0,5	16	+/-0,5	3	154	60	20	65			153070	
12,7	+/-0,5	19	+/-0,5	3,15	198	60	20	80		152864	153083	
16	+/-0,8	23	+/-0,8	3,5	275	60	20	110			153096	
19	+/-0,8	26	+/-0,8	3,5	318	60	20	140			153109	153183
25	+/-1,0	33	+/-1,0	4	491	45	15	180			153112	153113
32	+/-1,0	41	+/-1,0	4,5	671	36	12	235			153115	

TECHNOBEL®

Classic

60 | 30
 bar

+60
- 15
 °C


- 1 Flexible black PVC coating
- 2 Polyester fibre reinforcement
- 3 Flexible black PVC intermediate layer
- 4 Elastomer polyester

FLEXIBLE, RESISTANT, LOW PRESSURE MULTIPURPOSE HOSE.

Four layer thermoplastic design with polyester fibre textile. Braided reinforcement and Thermopolymer lining.

APPLICATIONS

Compressed air for arduous industrial uses, transfer of certain chemical products (please consult us), agro-chemical industry

SECTORS OF ACTIVITY

Industry in general

MARKING

TECHNOBEL  \varnothing inn x \varnothing out [WP/BP] BAR [Trimestre]Q/[Year] [Batch number]

ADVANTAGES

TECHNOBEL® is a high resistant flexible hose with a polyester inner wall. This inner wall provides the TECHNOBEL® hose with resistance to a range of chemicals as a complement to the TRICOCLAIR® hose.








Thanks to its constituent materials and the quality of its reinforcement, TECHNOBEL® hose offers minimal distortion under pressure with very good ageing resistance capabilities, as well as good resistance to mechanical strains (impacts, flattening, pressure cycles).

CONNECTORS

Quick connectors, barbed or serrated connectors. Band, worm drive, screw or 'O' type clamps. Cap connectors. Swaged fittings can be used if they do not damage the hose (particular care must be taken to avoid damaging the thermoplastic lining).

CHEMICAL RESISTANCE

See table pages 106 to 109 column A for outer layer, col. D for inner layer.

 mm	+/- mm	 mm	+/- mm	 mm	 g/m	 bar	 bar	 mm	Black	
									25 m	50 m
6	+/- 0,3	11	+/- 0,3	2,5	89	60	20	42		135749
8	+/- 0,5	14	+/- 0,5	3	137	60	20	56		147885
10	+/- 0,5	16	+/- 0,5	3	162	60	20	75	135800	147898
12,7	+/- 0,6	19,5	+/- 0,6	3,4	228	60	20	90	135826	147930
16	+/- 0,6	23,5	+/- 0,6	3,75	307	60	20	160	135842	135855
19	+/- 0,8	27,5	+/- 0,8	4,25	412	60	20	200	135868	147901
25	+/- 0,8	34,5	+/- 0,8	4,75	590	55	18	250	135884	147914
30	+/- 0,8	40,5	+/- 0,8	5,25	774	40	13	300		135913
32	+/- 0,8	44	+/- 0,8	6	955	40	13	320		126142
50	+/- 1,0	64	+/- 1,0	7	1673	30	10	500	135984	

TUBE PTFE



1 Polytetrafluoroethylene

THIN-WALLED CALIBRATED TUBES MADE OF POLYTETRAFLUOROETHYLENE.

APPLICATIONS

For the transfer of chemical products, for the passage of fluids in high-temperature conditions.

SECTORS OF ACTIVITY

Industry, laboratories

Without marking

ADVANTAGES

PTFE tubes are compatible with most chemicals. Fluoropolymers give the tubes excellent dimensional stability over a wide temperature range from -70 to +260°C. They are also non-flammable and electrically insulating.

The material with the lowest coefficient of friction, PTFE has remarkable anti-stick properties and is easy to clean. PTFE tubes have a perfectly smooth inner wall. They are white and slightly translucent.








CONNECTORS

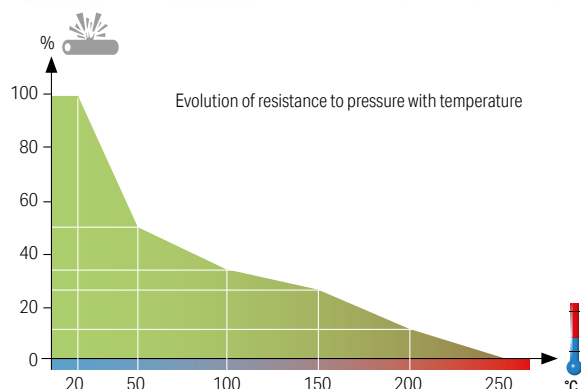
It is best to use PTFE tubes with compression fittings usually used with nylon tube.

CHEMICAL RESISTANCE

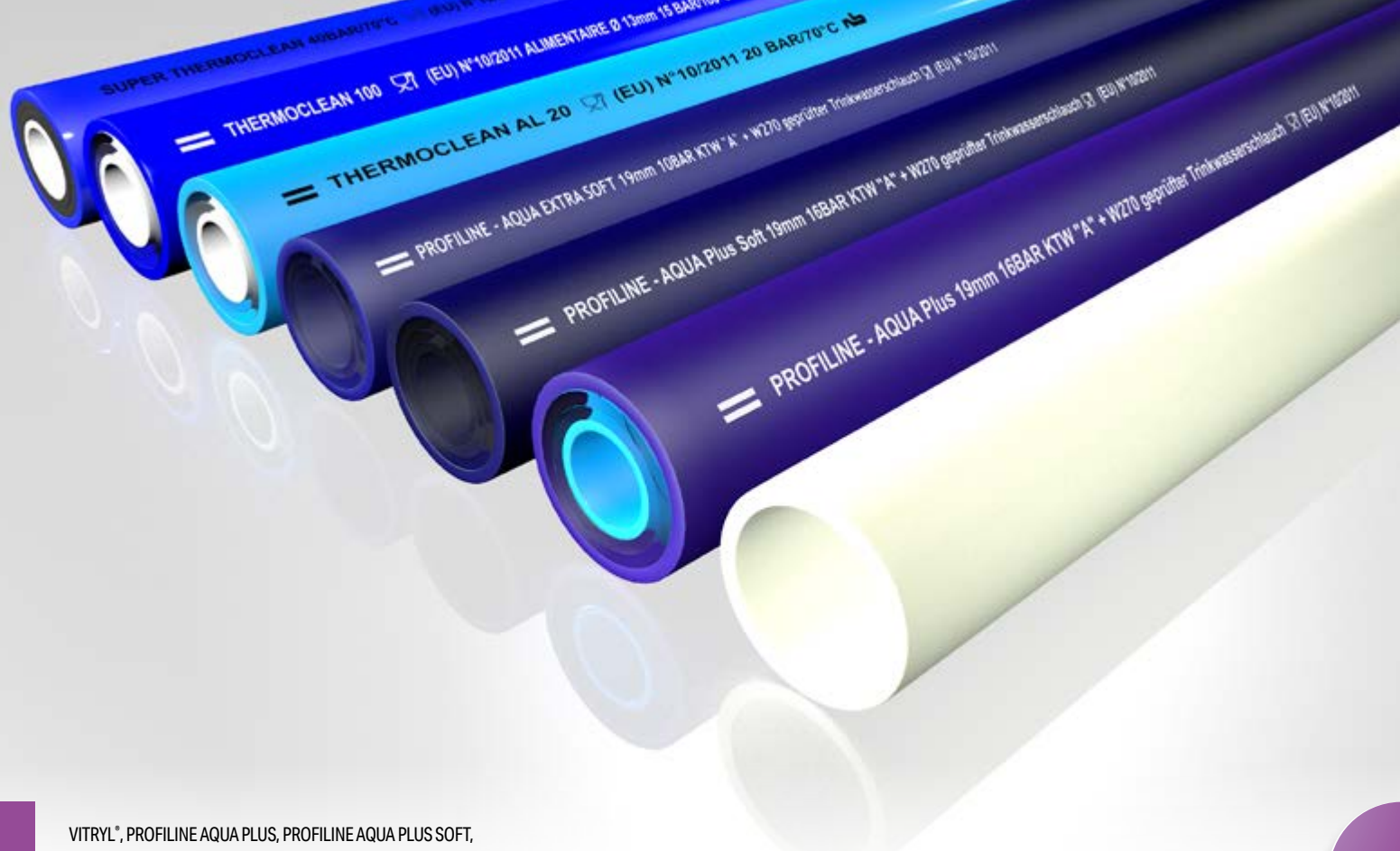
PTFE is the polymer which is compatible with the greatest number of chemicals. Acids, bases, hydrocarbons, numerous solvents, it is resistant to virtually all aggressive liquids.

See table pages 106 to 109 column H.

 mm	+/- mm	 mm	+/- mm	 mm	 g/m	 bar	 °C	 mm	Translucent white		
									25 m	50 m	100 m
2	+/- 0,16	4	+/- 0,16	1	20	60	20	32	169412		
4	+/- 0,20	6	+/- 0,20	1	34	40	13	72	169457		169473
5	+/- 0,25	8	+/- 0,25	1,5	66	36	12	85	169544		
6	+/- 0,25	8	+/- 0,25	1	47	30	10	128	169486	169488	169499
8	+/- 0,30	10	+/- 0,30	1	61	24	8	200	169502		169515
10	+/- 0,30	12	+/- 0,30	1	74	20	6	288	169528		169531







VITRYL®, PROFILINE AQUA PLUS, PROFILINE AQUA PLUS SOFT, PROFILINE AQUA EXTRA SOFT, WASHING GUNS, THERMOCLEAN® 100 ANTIMICROBIAL, THERMOCLEAN® AL 20, SUPER THERMOCLEAN® 40

FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING

49

TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R, TRICOFLEX® YACHTING, RUBVYL®, PRIMABEL®, TRICOFLAT®, SUPER TRICOFLAT®

WATER HOSES

59

T694, T1947

FIRE-FIGHTING HOSES

69

SPIRABEL® RANGE : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, SPIRE ACIER, BALNÉO, PUA2

SPIRAL HOSES

73

DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

89

CHEMICAL RESISTANCE CHART OF HOSES

99

INDEX PRODUCTS BY ARTICLE CODE

105

GENERAL CONDITIONS OF SALES

113

VITRYL®



1 Transparent food-grade silicone.

FOOD-GRADE QUALITY MONOLAYER TUBE IN TRANSPARENT SILICONE (60 SHA).

APPLICATIONS

Food liquids and aqueous solutions transfer including acids and bases (please consult us)

SECTORS OF ACTIVITY

Food Processing, medical (non invasive equipment) laboratories, peristaltic pumps

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

50

Without marking

ADVANTAGES



Silicone is a flexible material which is resistant to high temperatures. VITRYL® can be used up to 240°C and resists repeated sterilization cycles. VITRYL® can also be used at low temperatures and is suitable for foodstuff and alcohol transfer up to 50%.

CONNECTORS

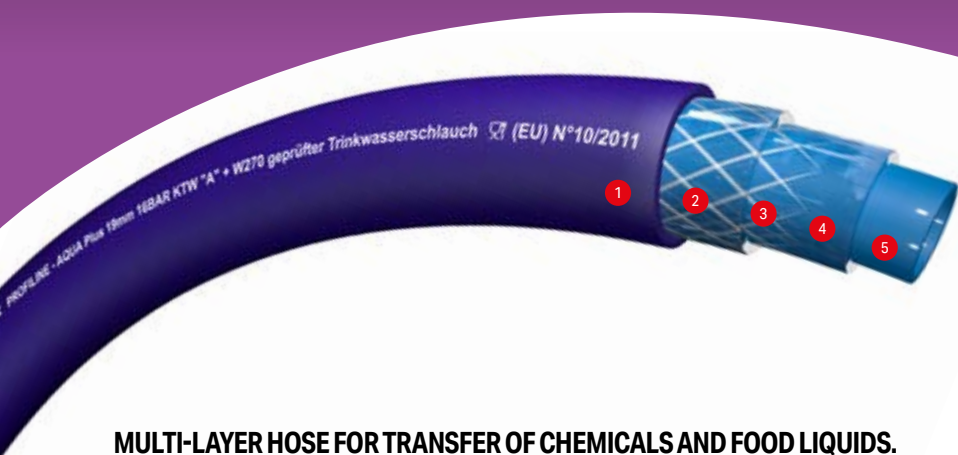
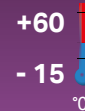
Barbed connectors with band, worm drive, screw or 'O' type clamps. Crimping is unsuitable. It can be fitted to smooth tubes with clamps.

CHEMICAL RESISTANCE

See table pages 106 to 109 column G.

	\pm		\pm		Transparent	
mm	mm	mm	mm	mm	g/m	
3	$\pm 0,2$	5	1	$\pm 0,15$	15	189782
3	$\pm 0,2$	6	1,5	$\pm 0,15$	24	169283
3	$\pm 0,2$	7	2	$\pm 0,15$	37	169022
4	$\pm 0,25$	6	1	$\pm 0,15$	18	189795
4	$\pm 0,25$	7	1,5	$\pm 0,15$	30	169309
4	$\pm 0,25$	8	2	$\pm 0,15$	44	169035
5	$\pm 0,35$	8	1,5	$\pm 0,2$	36	189801
6	$\pm 0,35$	9	1,5	$\pm 0,25$	41	189814
6	$\pm 0,35$	10	2	$\pm 0,25$	58	169080
6	$\pm 0,35$	12	3	$\pm 0,25$	98	169093
7	$\pm 0,4$	11	2	$\pm 0,25$	66	169409
8	$\pm 0,4$	11	1,5	$\pm 0,25$	52	169425
8	$\pm 0,4$	12	2	$\pm 0,25$	73	189830
8	$\pm 0,4$	14	3	$\pm 0,25$	120	169112
10	$\pm 0,4$	14	2	$\pm 0,25$	87	189843
10	$\pm 0,4$	16	3	$\pm 0,25$	132	169125
12	$\pm 0,5$	16	2	$\pm 0,3$	102	169154
12	$\pm 0,5$	17	2,5	$\pm 0,3$	132	189856
15	$\pm 0,5$	21	3	$\pm 0,3$	197	189869
20	$\pm 0,7$	27	3,5	$\pm 0,36$	300	189885

PROFILE AQUA PLUS



- 1 Cover in PE soft, blue and food quality
- 2 4 Intermediate layers in PE soft, white and food quality
- 3 Textile reinforcement
- 5 Inner layer in high density PE and food quality

MULTI-LAYER HOSE FOR TRANSFER OF CHEMICALS AND FOOD LIQUIDS.

Five layer hose with polyester reinforcement and polyethylene inner layer.

APPLICATIONS

Transfer of food liquids, drinking water (Germany)

SECTORS OF ACTIVITY

Food industry, fairs, exhibitions, chemical industry

SIMULANTS A, B, C, D1, D2

- fruit juices
- wines
- alcohols

- milk
- food oils

NEW CERTIFICAT 2021
KIWA-21-DW-10090

Instruction before use : It is recommended to flush the hose before the first use

MARKING PROFILE-AQUA PLUS ø inn 16 BAR KTW «A» + W270 geprüfter Trinkwasserschlauch (EU) N°10/2011 [year of fabrication] [Batch number]

ADVANTAGES

The lining of PROFILE AQUA PLUS, in PEHD, is perfect for most liquid foods. That is why this hose was approved KTW-Empfehlung (Drinking water Germany) by the Hygiene Institute from Ruhr.

These checks are:

- in the KTW recommendation for an examination of the chemical deposit in drinking water, tested on the end product.
- the DVGW W270 test is a microbacteriological material test.

Besides, it is inert chemically, which makes Profile Aqua Plus a hose suitable for the transfer of compatible chemicals. The special structure PVC ensures a flexible resistant hose.

CONNECTORS










Swaged, barbed or serrated connectors. Band, worm drive, screw or 'O' type clamps.

Crimping is possible with non-cutting connectors.

CHEMICAL RESISTANCE

See table pages 106 to 109 column E.

PROFILE-AQUA PLUS is compatible with a wide range of aggressive chemical products (acids, alkalis, hydrocarbons, solvents). There are, however, known incompatibilities and we do not advise PROFILE-AQUA PLUS to be used with the following products: Sulphuric acid smoking or bichromated, bromide chemicals, chlor-based chemicals, chromosulfonic acid, sulfonic chloride nitric acid (> 50%), gaseous flour, liquid phosgene, butylphenone, oil of camphor, sulphur trioxide.

									Blue 50 m
10	+/- 0.5	15	+/- 0.5	2,5	87	48	16	90	155240
13	+/- 0.5	20	+/- 0.5	3,5	161	48	16	110	155249
19	+/- 0.7	27	+/- 0.7	4	254	48	16	215	155256
25	+/- 0.8	34,5	+/- 0.8	4,75	394	48	16	295	155270

PROFILINE AQUA PLUS SOFT



- 1 Cover in PE soft, blue and food quality
- 2 4 Intermediate layers in PE soft, white and food quality
- 3 Textile reinforcement
- 5 Inner layer in Natural-PE, food quality

MULTI-LAYER HOSE FOR TRANSFER OF CHEMICALS AND FOOD LIQUIDS.

Flexible and highly resistant, five-layer soft-PE hose with polyester fabric.

APPLICATIONS

Transfer of food liquids, drinking water (Germany)

SECTORS OF ACTIVITY

Food industry, fairs, exhibitions, chemical industry

SIMULANTS A, B, C, D1, D2

- fruit juices
- wines
- alcohols
- milk
- food oils

NEW CERTIFICAT 2021
KIWA-21-DW-10091

Instruction before use : It is recommended to flush the hose before the first use

MARKING

PROFILINE-AQUA PLUS SOFT ø inn 16 BAR KTW «A» + W270 geprüfter Trinkwasserschlauch (EU) N°10/2011 [year of fabrication] [Batch number]

ADVANTAGES

- High flexibility.
- Excellent dimensional stability.
- High resistance.

The lining of PROFILINE AQUA PLUS SOFT, in PEHD, is perfect for most liquid foods. That is why this hose was approved KTW-Empfehlung (Drinking water Germany) by the Hygiene Institute from Ruhr.

These checks are:

- in the KTW recommendation for an examination of the chemical deposit in drinking water, tested on the end product.
- the DVGW W270 test is a microbacteriological material test.

Besides, it is inert chemically, which makes PROFILINE AQUA PLUS a hose suitable for the transfer of compatible chemicals. The special structure PVC ensures a flexible resistant hose.

CONNECTORS

Swaged, barbed or serrated connectors. Band, worm drive, screw or 'O' type clamps.
Crimping is possible with non-cutting connectors.

CHEMICAL RESISTANCE

See table pages 106 to 109 column E.

PROFILINE-AQUA PLUS SOFT is compatible with a wide range of aggressive chemical products (acids, alkalis, hydrocarbons, solvents). There are, however, known incompatibilities and we do not advise PROFILINE-AQUA PLUS SOFT to be used with the following products: Sulphuric acid smoking or bichromated, bromide chemicals, chlor-based chemicals, chromosulfonic acid, sulfonic chloride nitric acid (> 50%), gaseous flour, liquid phosgene, butylphenone, oil of camphor, sulphur trioxide.

	\pm mm		\pm mm		\pm mm		g/m		bar		m	
13	± 0.6	19	± 0.6	3	134	48	16	125		Blue	50 m	155260
19	± 0.7	26	± 0.7	3,5	221	48	16	210				155275
25	± 0.8	33,5	± 0.8	4,25	348	48	16	230				155280

PROFILELINE AQUA EXTRA SOFT



- 1 Cover in TPE soft, blue and food quality
- 2 Intermediate layers in TPE soft, white and food quality
- 3 Textile reinforcement
- 4 Inner layer in Natural-TPE, food quality

MULTI-LAYER HOSE FOR TRANSFER OF CHEMICALS AND FOOD LIQUIDS.

Highly flexible four-layer hose made of soft TPE with polyester fabric.

APPLICATIONS

Transfer of food liquids, drinking water (Germany)

SECTORS OF ACTIVITY

Food industry, fairs, exhibitions, chemical industry

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

NEW CERTIFICAT 2021
KIWA-21-DW-10092

Please ensure that the coil memory is maintained When using it to prevent kinking

Instruction before use : It is recommended to flush the hose before the first use

MARKING

PROFILELINE-AQUA EXTRA SOFT ø inn 10 BAR KTW «A» + W270 geprüfter Trinkwasserschlauch (EU) N°10/2011 [year of fabrication] [Batch number]

ADVANTAGES

- Extraordinary flexibility.
- Good dimensional stability.
- Smooth surface.
- Very suitable for roll-up systems.

The lining of Profileline Aqua Plus Soft is perfect for most liquid foods. That is why this hose was approved KTW-Empfehlung (Drinking water Germany) by the Hygiene Institute from Ruhr.

These checks are:

- in the KTW recommendation for an examination of the chemical deposit in drinking water, tested on the end product.
- the DVGW W270 test is a microbacteriological material test.

Compared to the PROFILELINE AQUA PLUS and the PROFILELINE AQUA PLUS SOFT, this new version is much more flexible and therefore very well suited for applications with very narrow bending radius. The PROFILELINE AQUA EXTRA SOFT redefines the concept of flexibility in drinking water hoses.

CONNECTORS

Swaged, barbed or serrated connectors. Band, worm drive, screw or 'O' type clamps.

Crimping is possible with non-cutting connectors.

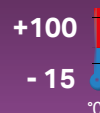
CHEMICAL RESISTANCE

The PROFILELINE AQUA EXTRA SOFT is mainly designed for drinking water. It can also be considered as chemically resistant to standard household cleaners based on weak acids, low concentrations of oxidizing agents and weak alkaline solutions. Please, contact us.

19	+/- 0,7	26	+/- 0,7	3,5	221	30	10	240
								Blue
								50 m
								155124

THERMOCLEAN® 100 ANTIMICROBIAL

new



- 1 Blue coating in PVC Soft, food-grade and antimicrobial non-staining, anti-grease, and resistant to detergents and disinfectants solutions.
- 2 4 High adherence food-grade layer
- 3 High tenacity polyester textile reinforcement
- 5 Soft white PVC antimicrobial and food-grade inner tube resistant to detergents and disinfectants solutions.

NEW GENERATION TUBE FOR WASHING UP TO 100°C CONTINUOUSLY.

Five layer design based on high thermal resistance food-grade materials and high adherence system between the inner tube and the outer layers. Resists grease and conventional detergent and disinfectant solutions. With an isolating thermal lining the risk of being scolded is reduced.

APPLICATIONS

Industrial cleaning, carrying foodstuffs

SECTORS OF ACTIVITY

Food Processing, dairy industry, shopkeepers, craftsmen, slaughterhouses, industrial uses

SIMULANTS A, B, C

- fruit juices
- wines



MARKING

= THERMOCLEAN® 100 ANTIMICROBIAL (EU) N°10/2011 ALIMENTAIRE Ø inn [WP] bar / 100°C [Batch number] =

ADVANTAGES

THERMOCLEAN® 100 ANTIMICROBIAL is more flexible and more resistant at high temperature. It is a safety tube: it stands thermal shocks, hammering, cyclic pressure and deformation particularly well up to 100°C continuously and even up to 120°C intermittently as a recyclable and non-staining material that is resistant to several agri-food industry cleaning solutions, it is the new standard for professional cleaning.

The THERMOCLEAN® 100 ANTIMICROBIAL keeps its performance at high temperatures and prevents bacteria from developing.

CONNECTORS

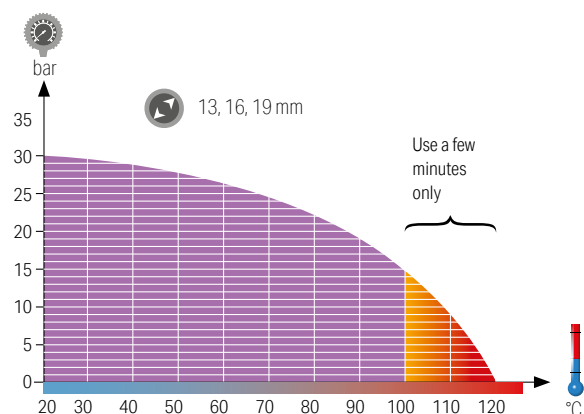
THERMOCLEAN® 100 ANTIMICROBIAL can be equipped with all types of connectors assembled with clamps. Caution: please make sure that the following precautions are followed:

- The connectors should be safe to handle; the tail should have a length that is at least twice that of the inside diameter.
- In the case of clamp fixation, it is recommended that two clamps be used and that they be retightened after first use.
- Crimping is the most adequate solution (please consult us).

CHEMICAL RESISTANCE

See table pages 106 to 109 column B.

 mm	+/-	 mm	+/-	 mm	 g/m	 20°C bar	 100°C bar	 20°C bar	 100°C bar	 mm	Blue	
											20 m	40 m
13	+/- 0.6	22	+/- 1.0	4,5	306	90	45	30	15	80	145571	145584
16	+/- 0.8	25	+/- 1.0	4,5	358	90	45	30	15	95	145655	145668
19	+/- 0.9	28	+/- 1.25	4,5	408	90	45	30	15	115	145671	145684
25	+/- 1.0	34	+/- 1.25	4,5	513	78	39	26	13	150	145597	145697



Maximum working pressure
15 bar at 100°C



THERMOCLEAN® 100 ANTIMICROBIAL



TRICOFLEX® offers the SANITIZED® antimicrobial protection on THERMOCLEAN® 100

(82% antiviral efficacy against
COVID 19 after 2 hours)

ANTIMICROBIAL

THERMOCLEAN® AL 20



- 1 Blue soft PVC cover, food grade, non-staining, greaseproof, resistant to detergents and disinfectants
- 2 Adhesion layer in food grade soft PVC
- 3 Polyester fibre reinforcement
- 4 Adhesion layer in food grade soft PVC
- 5 White soft PVC, food grade, resistant to detergents and disinfectants

HOT WATER CLEANING HOSE FOR MEDIUM PRESSURE (20 BAR TO 70°C).

Five layer structure. Non-staining blue outer cover with high resistance polyester fibre reinforcement. Special intermediate adhesive layer and white inner layer with high temperature performance.

APPLICATIONS

Industrial cleaning in industry and food industry

SECTORS OF ACTIVITY

Food processing industries (dairies, slaughterhouses, etc), local communities (canteens, refectories, kitchens...), shopkeepers (butcher's, fish shops, markets...)

SIMULANTS A, B, C

- fruit juices
- wines



MARKING

THERMOCLEAN® AL 20 (EU) N° 10/2011 20 BAR / 70°C [year of fabrication] [Batch number]

ADVANTAGES

Material properties used to manufacture THERMOCLEAN® AL 20 make it a high performance, safe and reliable hose capable to withstand heavy duty applications:

- high temperature performance (up to 70°C under 20 bar continuously, peaks possible up to 80°C); four highly flexible polymer components provide excellent handling;
- non-staining blue outer cover is resistant to oils, grease and detergents;
- food-grade quality.

CONNECTORS

Barbed connectors with two O clips (O clips should be recrimped after first use).
Swaged connectors with ferrules is possible.

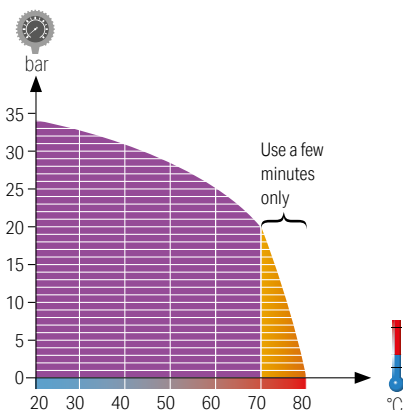
RECOMMENDATION

To ensure a better connection, we recommend assembly after the hose end has been put in hot water at 60°C for 30 seconds.

CHEMICAL RESISTANCE

See table pages 106 to 109 column B.

	mm	+/-		mm	+/-		g/m		20°C	bar		70°C	bar		20°C	bar		70°C	bar		mm	Blue	
																						25 m	100 m
12		+/- 0,6	20		+/- 0,6	4	236		100		60		33		20		108					100236	100237
16		+/- 0,6	24		+/- 0,6	4	311		100		60		33		20		144					100268	
19		+/- 0,8	28		+/- 0,8	4,5	409		100		60		33		20		171					100284	



Maximum working pressure
20 bar at 70°C

SUPER THERMOCLEAN® 40



- 1 Blue cover in flexible, non-staining, greaseproof, detergent and disinfectant resistant food grade PVC
- 2 4 Double polyester reinforcing
- 3 5 Intermediary layers in flexible PVC
- 6 Inner surface in flexible grey PVC

AVERAGE PRESSURE INDUSTRIAL WASHING HOSE (40 BAR AT 70°C).

Six-layer design with double polyester fibre reinforcing.

APPLICATIONS

Industrial cleaning

SECTORS OF ACTIVITY

Dairy industry, communities, shopkeepers, craftsmen, slaughterhouses, industrial uses

SIMULANTS A, B, C

- fruit juices
- wines



57

MARKING

SUPER Thermoclean® 40 BAR / 70°C (EU) N° 10/2011 [year of fabrication] [Batch number]

ADVANTAGES

Super material properties of SUPER THERMOCLEAN® 40 make it a high-performance, safe and reliable hose capable of meeting severe conditions:












- exceptional temperature performance (up to 70°C under 40 bar continuously, peaks possible up to 80°C);
- six highly flexible layers provide excellent handling;
- non-staining blue outer surface is resistant to oily products and detergents;
- excellent kinking resistance.

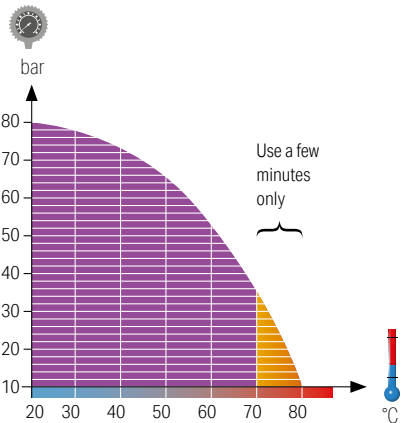
CONNECTORS

Barbed connectors with 'O' type clips (retighten the clips after first high temperature use). Crimping is possible under certain conditions (please consult us).

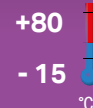
CHEMICAL RESISTANCE

See table pages 106 to 109 column B.

 mm	 mm	 mm	 g/m	 bar	 °C	 bar	 °C	 bar	 °C	 bar	Blue		
											25 m	50 m	100 m
12	+/- 0.6	22	+/- 0.8	5	335	240	120	80	40	84	100758	100761	100774



Maximum working pressure
40 bar at 70°C



WASHING GUN LOW PRESSURE







This low pressure washing gun is designed for all your industrial cleaning operations buildings, agribusiness laboratories, equipment, machines, vehicles...

The automatic shut off trigger enables considerable reduction in water consumption. According to the pressure, you exert on the trigger to adjust the power. You can vary from a wide spray to a powerful concentrated jet.

It is sturdy, maintenance free, made from brass and stainless steel, covered with a EPDM coating to provide protection against shocks, chemical detergents and heat.

It is mandatory to wear heat-resistant and waterproof gloves when the fluid temperature exceeds 80°C.

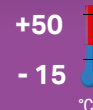
Fittings: BSP 1/2" female.

 g	 bar	 T° max	 L/min/bar	Ref
840	25	80	25/5	059100

58



(EU) N°10/2011






POLYPROPYLENE WATER GUN LOW PRESSURE



Easy to handle, low pressure water gun, designed to cope with the toughest industrial cleaning operations. The system for adjusting the water-jet/spray pattern is independent of the trigger, allowing precise control of water consumption.

Very easy to operate, ultra-light and with a stainless-steel swivel connector-coupling to allow the free rotation of the gun on the hose. Very robust, with a polypropylene internal operating structure with fibreglass reinforcements. The trigger is protected to reduce the risk of damage if dropped. The protective cover is fully enclosed to avoid build up of dirt and grime. Stainless-steel water inlet connector, body and shut-off spring: joints/valve seals in NBR/EPDM

Connector: BSP 1/2" female.

 g	 bar	 T° max	Ref
420	12	50	059107



Stainless-steel
swivel connector



Jet/spray control knob



TRICOFLEX® PERFORMANCE, TRICOFLEX®, TRICOFLEX® R,
TRICOFLEX® YACHTING, RUBVYL®, PRIMABEL®,
TRICOFLAT®, SUPER TRICOFLAT®

WATER HOSES

T694, T1947

FIRE-FIGHTING HOSES

SPIRABEL® RANGE : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL,
VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, SPIRE ACIER,
BALNÉO, PUA2

SPIRAL HOSES

DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

CHEMICAL RESISTANCE CHART OF HOSES

INDEX PRODUCTS BY ARTICLE CODE

GENERAL CONDITIONS OF SALES

59

69

73

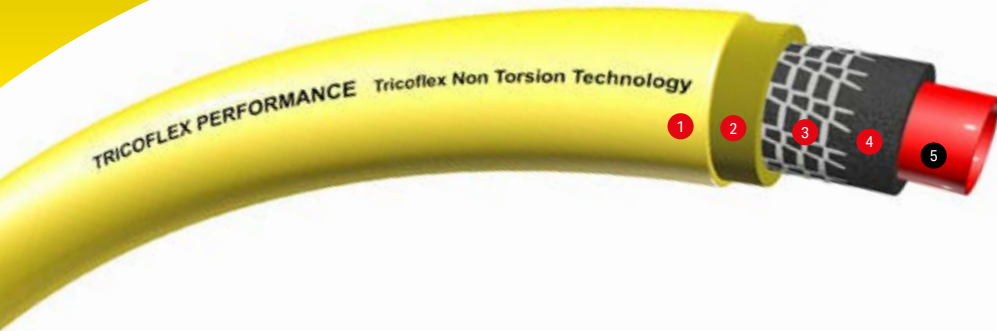
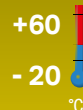
89

99

105

113

TRICOFLEX® PERFORMANCE



- 1 Soft PVC coating
- 2 Intermediate layer of flexible PVC yellow
- 3 Textile knitted reinforcement TNT
- 4 Intermediate layer of soft black PVC
- 5 Red flexible PVC

FIVE-LAYER KNIT WATER TRANSPORT HOSE FOR PROFESSIONAL USE.

APPLICATIONS

Watering, irrigation, water supply and delivery

SECTORS OF ACTIVITY

Farms, vegetable growers, horticulture, water supply and delivery in industry, construction sites and road works

MARKING

TRICOFLEX PERFORMANCE Tricoflex Non Torsion Technology [N° lot]

ADVANTAGES

TRICOFLEX® PERFORMANCE combines high resistance and exceptional flexibility thanks to a multi-layered structure and an exclusive knit technique.

Resistant to abrasion, bad weather conditions, UV, crushing, and repeated pressure cycles, with a low curve radius preventing folding: these intrinsic qualities make the difference every day and for the long term.

TRICOFLEX® PERFORMANCE even has a red interior wall specially formulated to improve flow and resisted to polluted water, for a longer life span even in the case of especially tough use.

CONNECTORS

Connectors with band, screw or 'O' type clamps. Automatic connectors for watering.

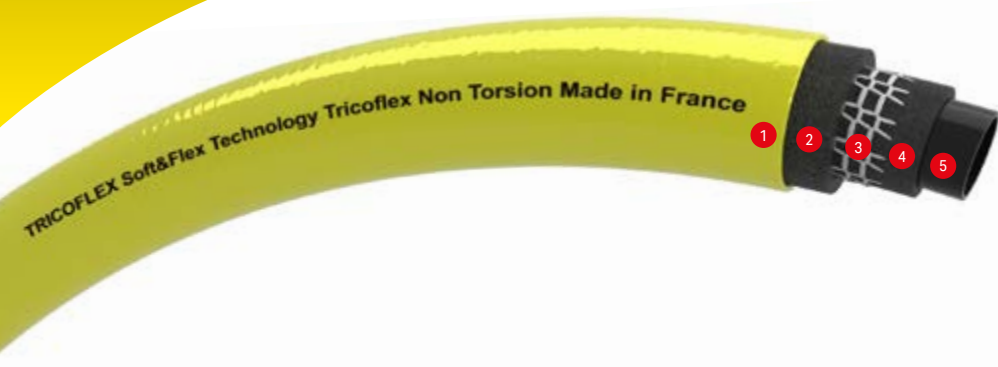
CHEMICAL RESISTANCE

See table pages 106 to 109 column A.



						Yellow	
						25 m	50 m
12,5	18,2	2,85	38	15	110	110000	110001
15	20,8	2,9	35	14	120	110002	110003
19	25,8	3,4	30	12	160	110004	110005
25	32,4	3,7	20	8	200	110006	110007

TRICOFLEX®

Classic


- 1 Yellow or green PVC covering
- 2 Intermediate layer of flexible PVC yellow
- 3 Textile knitted reinforcement TNT
- 4 Intermediate layer of soft black PVC
- 5 Smooth black inner tube

FLEXIBLE MULTILAYER HOSE.

Exterior covering in ultra UV resistant PVC. With woven polyester fibre reinforcement and two-layer smooth lining.

APPLICATIONS

Watering, irrigation, water supply and delivery

SECTORS OF ACTIVITY

Farms, vegetable growers, horticulture, water supply and delivery in industry, construction sites and road works

MARKING

TRICOFLEX Soft & Flex Technology Tricoflex Non Torsion Made in France [Batch number]

ADVANTAGES

The multi-layer design, made of an exclusive woven fibre and a double core layer, ensures that TRICOFLEX® is highly flexible for easy handling, with excellent resistance to repeated bending, crushing and pulling as well as minor deformation under pressure.

In addition, the lining is extremely smooth, thereby maintaining even flow. Especially thick and made of high quality materials, TRICOFLEX® offers remarkable aging resistance with exceptional preservation of flexibility. Its exterior yellow PVC covering gives it good protection against abrasion and UV.




CONNECTORS

Connectors with band, screw or 'O' type clamps. Automatic connectors for watering.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.



						Yellow			Green	
						25 m	50 m	100 m	25 m	50 m
12,5	17,6	2,55	25	10	125	117135	117151	117016		
15	20,5	2,75	25	10	135	116861	116874	054426	117045	117051
19	25,3	3,15	23	9	180	116887	051546	054437	142916	051570
25	32,3	3,65	20	8	240	048273	048374	048363	048284	048385
30	39	4,5	20	8	300	048508	048510	048497		
35	45	5	20	8	350	048565	048554	048587		
40	51	5,5	20	8	400	048442	048453	048655		
50	63	6,5	20	8	500	048306	048341			

TRICOFLEX® R



- 1 Yellow PVC covering
- 2 Intermediate layer of flexible PVC yellow
- 3 Textile knitted reinforcement TNT
- 4 Intermediate layer of soft black PVC
- 5 Smooth black innertube

FLEXIBLE MULTI-LAYER HOSE.

Exterior covering in ultra UV resistant PVC. With woven polyester fibre reinforcement and two-layer smooth black lining.

APPLICATIONS

Automatic sprinkler installations in greenhouses (mounted on motorized carts) Irrigation: water transfer and supply, main supply of micro-irrigation networks

SECTORS OF ACTIVITY

Farms, horticulture, water supply in industry and on construction sites and road works

MARKING

TRICOFLEX R Tricoflex Non Torsion Technology  [Batch number]

ADVANTAGES

The multi-layer design ensures that TRICOFLEX® R is both highly flexible for easy handling and has an excellent resistance to repeated bending, crushing and tensile stress.

A greatly resistant woven fibre and modified materials compared to TRICOFLEX® make TRICOFLEX® R a product particularly well suited to gantry sprinkler equipment in greenhouses, with increased resistance to tensile forces.

In addition, the inner surface is extremely smooth, thereby maintaining an even flow.

Especially thick and made of high quality materials, TRICOFLEX® R offers remarkable aging resistance with exceptional preservation of flexibility.







Its exterior yellow PVC covering gives it good protection against abrasion and UV rays.

CONNECTORS

Connectors with band, screw or 'O' type clamps.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

 mm	 mm	 mm	 bar	 bar	 mm	Yellow	
						50 m	100 m
19	25,5	3,25	24	8	250	116568	116542
25	32,5	3,75	24	8	320	048671	048697

TRICOFLEX® YACHTING



- 1 White PVC flexible liner
- 2 Intermediate layers of foam PVC
- 3 Knitted fibre reinforcement
- 4 Intermediate layers of foam PVC
- 5 Blue inner tube

5-LAYER MULTIPURPOSE HOSE WITH KNITTED REINFORCEMENT.

Exterior covering in PVC. With woven polyester fibre reinforcement and two-layer smooth lining.

APPLICATIONS

Water supply and delivery

SECTORS OF ACTIVITY

Yachting, swimming pools

MARKING

TRICOFLEX YACHTING Soft & Flex Technology

ADVANTAGES

Flexible and strong. White outer layer makes it particularly unobtrusive on boats and around swimming pools.







CONNECTORS

Connectors with band, screw or 'O' type clamps. Automatic connectors for watering.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.



 mm	 mm	 mm	 bar	 bar	 mm
12,5	18,2	2,85	25	10	125
15	21,1	3,05	25	10	135
19	26	3,5	23	9	180

White		
15 m	25 m	50 m
063150		
	063176	
	063218	063263

Reel
80 m
063205

RUBVYL®



- 1 Cover in soft brick red or black PVC
- 2 Textile knitted reinforcement
- 3 Black inner tube

FLEXIBLE MULTI-LAYER HOSE.

3-layer knitted hose. Light, flexible and resistant, it is recommended for regular and professional use.

APPLICATIONS

Watering, water supply






ALL SECTORS OF ACTIVITY

Without marking

64

CHEMICAL RESISTANCE

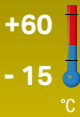
See table pages 106 to 109 column A.

 mm	 mm	 bar	 bar	 mm	Brick red	Black
					40 m	50 m
13	2,5	22	8	110	105118	
19	3	22	8	190	061031	105234
25	3,25	18	7	250	105150	105250



IRRIFLEX

NOT AVAILABLE FOR SALE
IN THE UNITED KINGDOM



- 1 Flexible PVC cover yellow with 2 blue stripes
- 2 Intermediate layer of expanded PVC black
- 3 Knitted textile reinforcement TNT
- 4 Intermediate layer of expanded PVC black
- 5 Black smooth soft PVC liner

FLEXIBLE MULTI-LAYER HOSE.


Structure reinforced with polyester knitting and UV resistant cover.

APPLICATIONS

Watering, irrigation, water supply and delivery

SECTORS OF ACTIVITY

Farms, vegetable growers, horticulture, water supply and delivery in industry, construction sites and road works

Marking IRRIFLEX  [Batch number]

ADVANTAGES






The Irriflex is a flexible multi-layer hose suitable for everyday professional uses.

CONNECTORS

Connectors with band, screw or 'O' type clamps. Automatic connectors for watering.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

					Yellow	
 mm	 mm	 bar	 bar	 mm	25 m	50 m
12,5	2,4	23	9	130	110050	110051
19	2,95	20	8	185	110054	110055
25	3,05	20	8	260	110056	110057



PRIMABEL®



- 1 Cover in soft yellow PVC
- 2 Intermediate layer in foamed PVC
- 3 Textile knitted reinforcement TNT
- 4 Intermediate layer in foamed black PVC
- 5 Black inner tube

FLEXIBLE MULTI-LAYER HOSE.

5-layer knitted hose with foamed "Soft&Flex" structure. Light and soft, it is recommended for regular use.

APPLICATIONS

Watering, water supply

ALL SECTORS OF ACTIVITY






MARKING

PRIMABEL Soft&Flex Technology Non Torsion Made in France [Batch number]

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.



 mm	 mm	 bar	 bar	 mm	Yellow			Green	
					15 m	25 m	50 m	25 m	50 m
12,5	2,25	20	8	140		116365	116378	132839	
15	2,05	20	8	160	153805	116381	116394	117802	117799
19	2,4	16	6	200		116400	194255	117828	117757
25	3	16	6	255		194268	194271		
30	4,2	16	6	460			194297		



TRICOFLAT® & SUPER TRICOFLAT®

FLAT HOSES.

3-layer design in PVC with polyester fibre reinforcement.

MARKING

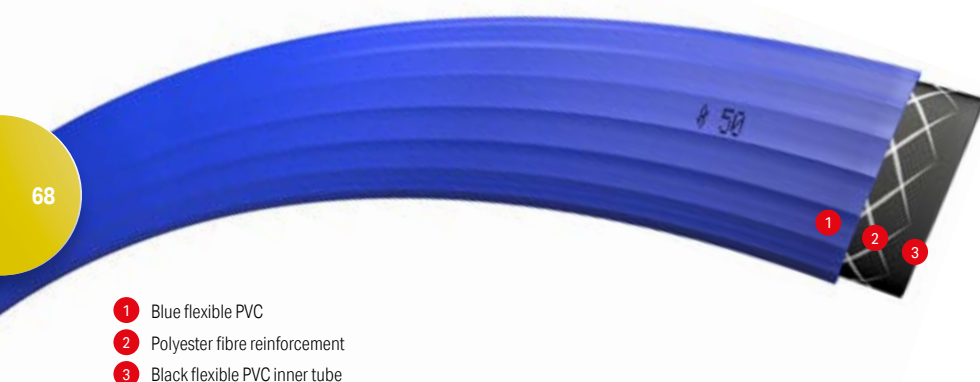
ø inn [Batch number]

TRICOFLAT®


30 | 7,5
bar

+60
- 10
°C

STANDARD QUALITY : BLUE COVER



- 1 Blue flexible PVC
- 2 Polyester fibre reinforcement
- 3 Black flexible PVC inner tube

SUPER TRICOFLAT®


42 | 18
bar

+60
- 15
°C

HEAVY DUTY : RED COVER



- 1 Red flexible PVC
- 2 Polyester fibre reinforcement
- 3 Black flexible PVC inner tube

APPLICATIONS

Water supply and irrigation

SECTORS OF ACTIVITY

Farms, building trades and road works, industry

ADVANTAGES

The polyester fibre reinforcement gives TRICOFLAT® (blue) and SUPER TRICOFLAT® (red) excellent pressure, tensile and tear resistance. These robust hoses also demonstrate excellent resistance to UV, abrasion and crushing.

The inner and outer layers are made of PVC, whose flexibility provides greater ease of use and handling. Flat storage helps reduce clutter. After use, cleaning is easy, with no need for drying. The perfectly smooth inner surface decreases flow losses.

The bright colors make identification easy.

CONNECTORS





Cam, semi-symmetrical or Storz connectors.







Band collars. In order to avoid damaging the hose during installation of the collars, it is recommended that before tightening, each end be protected with a sleeve that can simply be a 10 cm length taken from the hose itself.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

TRICOFLAT® & SUPER TRICOFLAT®

TRICOFLAT®								Blue		
 mm	+/- mm	 mm	+/- mm	 mm	 bar	 bar	 daN	25 m	50 m	100 m
25	+/- 1,5	2,2	+/- 0,2	240	30	10	350	140602	140615	
30	+/- 1,5	2,2	+/- 0,2	280	30	10	400	140631	140644	
35	+/- 1,5	2,2	+/- 0,2	300	30	10	500	140005	140016	
40	+/- 1,5	2,2	+/- 0,2	350	30	10	400	140027	140038	140041
45	+/- 1,5	2,2	+/- 0,2	400	30	10	450	140054	140067	
50	+/- 1,5	2,2	+/- 0,2	480	24	8	500	140070	140083	140096
55	+/- 1,5	2,2	+/- 0,2	500	21	7	550	140109	140112	
63	+/- 1,5	2,2	+/- 0,2	540	21	7	630	140125		140141
70	+/- 2,0	2,2	+/- 0,2	620	21	7	700	140154	140167	
75	+/- 2,0	2,4	+/- 0,2	750	21	7	750	140183	140196	140209
80	+/- 2,0	2,4	+/- 0,2	800	21	7	800			140201
90	+/- 2,0	2,4	+/- 0,2	900	21	7	900	140212	140225	
100	+/- 2,0	2,4	+/- 0,2	1050	18	6	1000	140241	140254	140267
150	+/- 2,0	3	+/- 0,2	1800	12	4	1500		140283	
200	+/- 2,0	3	+/- 0,2	2100	7,5	2,5	2000		140689	

SUPER TRICOFLAT®								Red	
 mm	+/- mm	 mm	+/- mm	 mm	 bar	 bar	 daN	25 m	100 m
45	+/- 1,5	2,5	+/- 0,5	480	42	14	450	140325	
50	+/- 1,5	2,5	+/- 0,5	520	36	12	500	140357	140373
70	+/- 2,0	2,8	+/- 0,5	840	36	12	700	140431	
75	+/- 2,0	2,8	+/- 0,5	880	36	12	750	140457	140473
100	+/- 2,0	3,1	+/- 0,5	1300	30	10	1000	140515	
150	+/- 2,0	3,2	+/- 0,5	2000	18	6	1500	140544	





T694, T1947

FIRE-FIGHTING HOSES

SPIRABEL® RANGE : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, SPIRE ACIER, BALNÉO, PUA2

SPIRAL HOSES

DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

CHEMICAL RESISTANCE CHART OF HOSES

INDEX PRODUCTS BY ARTICLE CODE

GENERAL CONDITIONS OF SALES

69

73

89

99

105

113

T 1947



- 1 Cover in red soft PVC
- 2 Polyester reinforcement
- 3 Inner layer in black soft PVC

**T1947:2014 HOSES COMPLY WITH
NF EN 1947:2014 STANDARD
(TYPE A CLASS 2)**



NF 377
148.TSR.07
www.marque-nf.com

MARKING CLASS 1



MATERIELS SAPEURS POMPIERS 148.TSR.07 TUYAU SEMI-RIGIDE DN 25 CATEGORIE 1 TYPE A2 VERSION S.EN 1947:2014. PN 15 BAR [Quarter/Year] [Batch number]

MARKING CLASS 2










MATERIELS SAPEURS POMPIERS 148.TSR.07 TUYAU SEMI-RIGIDE DN 25 CATEGORIE 2 TYPE A2. EN 1947:2014. PN 40 BAR [Quarter/Year] [Batch number]

ADVANTAGES

Light and flexible, T1947 hoses withstand easily shocks and crushing. It coils well without flattening on standard hose reels.

CONNECTORS

Usual connections for fire-fighting hoses.

Class	 mm	\pm mm	 mm	\pm mm	 mm	 g/m	 bar	 bar	 mm	Red	
	20 m	40 m	20 m	40 m	20 m	40 m	20 m	40 m	20 m	40 m	
1	25,5	\pm 0.5	33,3	\pm 0.4	3,9	466	45	15	440	125746	125865
2	25,5	\pm 0.5	34,2	\pm 0.4	4,4	519	100	40	480	125759	

T 694



- 1 Cover in black or red soft PVC
- 2 Polyester reinforcement
- 3 Inner layer in black soft PVC

HOSE FOR FIRE-FIGHTING REELS - BLACK MATT OR RED COLOUR.

3-layer hose according to NF EN 694:2014 (type A class 2), with polyester reinforcement.


**T 694 HOSE COMPLIES WITH
NF EN 694:2014 STANDARD
(TYPE A CLASS 2)**



NF 021
02/01

www.marque-nf.com

MARKING










 - EN 694:2014 - A - 2 - Ø inn - [WP] - [Quarter]Q/[Year] - NF - 02 - [Batch number]

ADVANTAGES

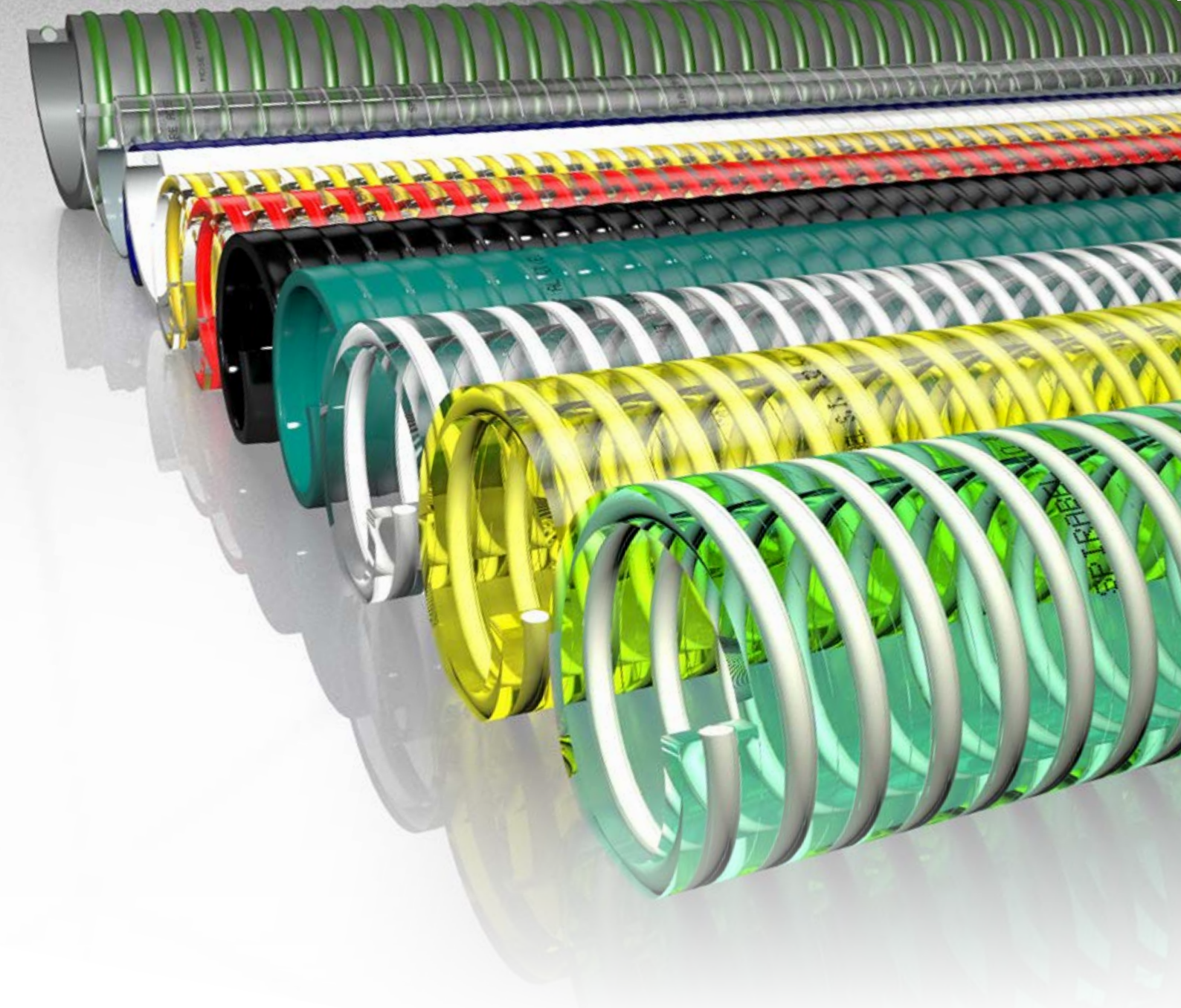
Its conception in very resistant materials allows T694 to easily withstand shocks and crushing.
It coils well without flattening on standard hose reels.
Thanks to the UV and abrasion resistant cover, T694 has excellent anti-aging properties.

CONNECTORS

Usual connections for fire-fighting hoses.

									Black	Red
mm	+/- mm	mm	+/- mm	mm	g/m	bar	bar	mm	30 m	30 m
19	+/-0,6	25	+/-0,6	3	285	42	12	220	145336	145430
25	+/-0,8	32	+/-0,8	3,5	433	42	12	240	145378	145352
33	+/-1,0	41,5	+/-1,0	4,25	714	25	7	280	144672	





SPIRABEL® RANGE : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL,
VENDANGES, MDSE, MDSE PERFORMANCE, MDSO, SPIRE ACIER,
BALNÉO, PUA2

SPIRAL HOSES

73

DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

89

CHEMICAL RESISTANCE CHART OF HOSES

99

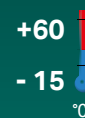
INDEX PRODUCTS BY ARTICLE CODE

105

GENERAL CONDITIONS OF SALES

113

SPIRABEL® LD



- 1 White spiral in rigid and shock-proof PVC
- 2 Wall in soft and transparent PVC. Inner and outer smooth

FLEXIBLE HOSE REINFORCED WITH A WHITE SHOCK-PROOF PVC SPIRAL. SOFT AND TRANSPARENT PVC WALL. LIGHT DUTY.

APPLICATIONS

Suction and delivery light duty, watering, small pumps, seed drills

SECTORS OF ACTIVITY

Agriculture, industry

MARKING

SPIRABEL LD Ø inn [Batch number]

ADVANTAGES

SPIRABEL® LD is a very light, flexible and economic hose. Its inner wall is smooth to reduce flow losses. Its transparency allows observation of transferred products.

CONNECTORS








Symmetrical connectors (Guillemin or Storz) with band collars thanks to the smooth cover. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

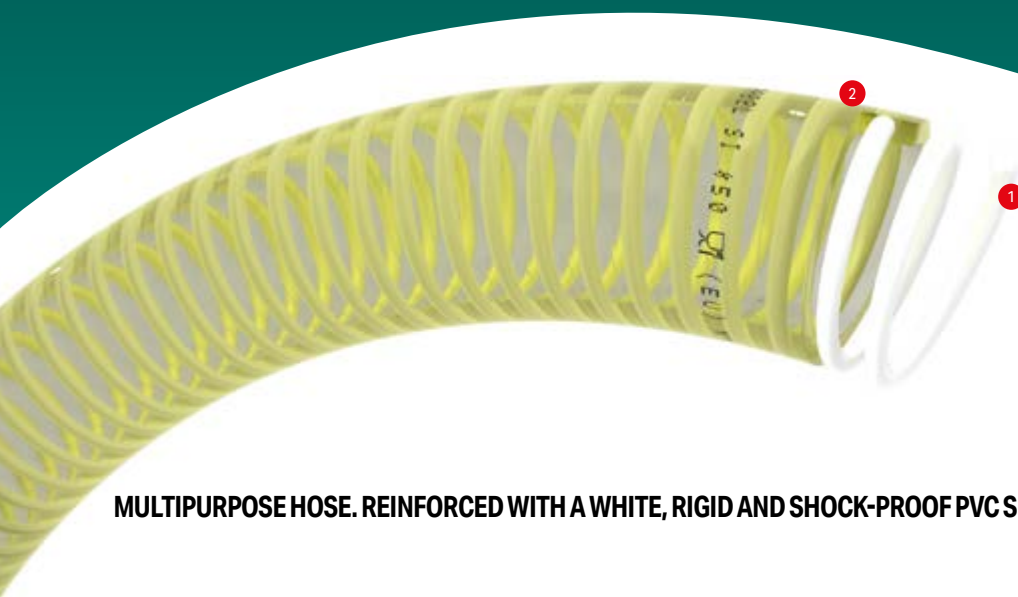
See table pages 106 to 109 column A.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Transparent green wall		
								25 m	30 m	50 m
20	+/- 1,0	2,4	220	18	6	600	80			137315
25	+/- 1,0	2,4	270	15	5	600	105			137331
32	+/- 1,0	2,5	350	15	5	600	135			137357
38	+/- 0,6	2,8	460	15	5	600	160		137371	137373
40	+/- 0,6	2,9	500	15	5	600	180	134376		
50	+/- 0,6	3,3	710	12	4	600	230		137413	137415
63	+/- 1,0	3,5	870	12	4	600	265			134405
75	+/- 1,0	3,8	1000	12	4	600	315	134421		
102	+/- 1,0	4,2	1870	9	3	600	428	134489		

SPIRABEL® SI



- 1 White spiral in rigid and shock-proof PVC
2 Wall in soft and transparent yellow PVC

MULTIPURPOSE HOSE. REINFORCED WITH A WHITE, RIGID AND SHOCK-PROOF PVC SPIRAL IN A TRANSPARENT SOFT PVC WALL.

APPLICATIONS

Suction and delivery of various liquids, irrigation, pumps, seed drills, transfer of low abrasive powders

SECTORS OF ACTIVITY

Industry, building, agriculture

SIMULANTS A, B, C

- fruit juices
- wines



MARKING

SPIRABEL S.I. Ø inn (EU) N° 10/2011 SIMA, B, C [Batch number]

ADVANTAGES

SPIRABEL® S.I. is a resistant, flexible and economic hose. Its very smooth internal wall reduces the flow losses. The smooth outside surface (up to diam 60) makes the assembly of fittings with any type of collar easier. The transparent wall allows observation of transferred products.








CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

We recommend to use SPIRABEL® MDSO or SPIRABEL® PUA2 for the transfer of hydrocarbons.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Transparent yellow wall	
								25 m	50 m
20	+/-0,6	2,4	230	18	6	700	60		191664
25	+/-0,6	2,5	280	18	6	700	75	033377	033300
30	+/-0,6	2,5	340	18	6	700	90	033388	033311
32	+/-0,6	2,5	360	16	5	700	95	032642	032655
35	+/-0,6	3	455	15	5	700	105	032658	
38	+/-0,6	2,8	480	15	5	700	115	032661	
40	+/-0,6	2,9	500	15	5	700	120	033390	033322
45	+/-0,6	3,1	595	15	5	700	135	033393	
50	+/-0,6	3,2	720	15	5	700	150	033401	033333
60	+/-0,6	3,2	840	15	5	700	180		033491
80	+/-0,6	4,5	1310	9	3	700	320	033538	
90	+/-0,6	4,8	1620	9	3	700	360	033524	
102	+/-0,6	5,2	2000	9	3	700	550	033366	

SPIRABEL® SNT-S



- 1 White spiral in rigid and shock-proof PVC
- 2 Wall in soft and transparent PVC

MULTIPURPOSE FOOD QUALITY HOSES.

Reinforced with a white, rigid and shock-proof PVC spiral in a transparent soft PVC wall.

APPLICATIONS

Suction and delivery of various liquids, irrigation, pumps, seed drills, transfer of food liquids, transfer of low abrasive powders (Non-greasy)

SECTORS OF ACTIVITY

Industry, Agriculture and food industry, building

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING

SPIRABEL SNT-S Ø inn 21 (EU) N° 10/2011 [Batch number]

ADVANTAGES

SPIRABEL® S.N.T.-S is light, very flexible and resistant. Its very smooth inner wall assures low flow losses. Its outer wall is also smooth which helps fitting connection by using band collars and reduces abrasive damage. Its transparency allows observation of transferred products.

SPIRABEL® S.N.T.-S can be used to transfer food liquids and even alcohol up to 50% at 60°C.

CONNECTORS

Symmetrical connectors (Guillemin or Storz) with band collars thanks to the smooth cover. We recommend checking before assembly that the fittings cannot harm the inner wall.








CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

WARNING

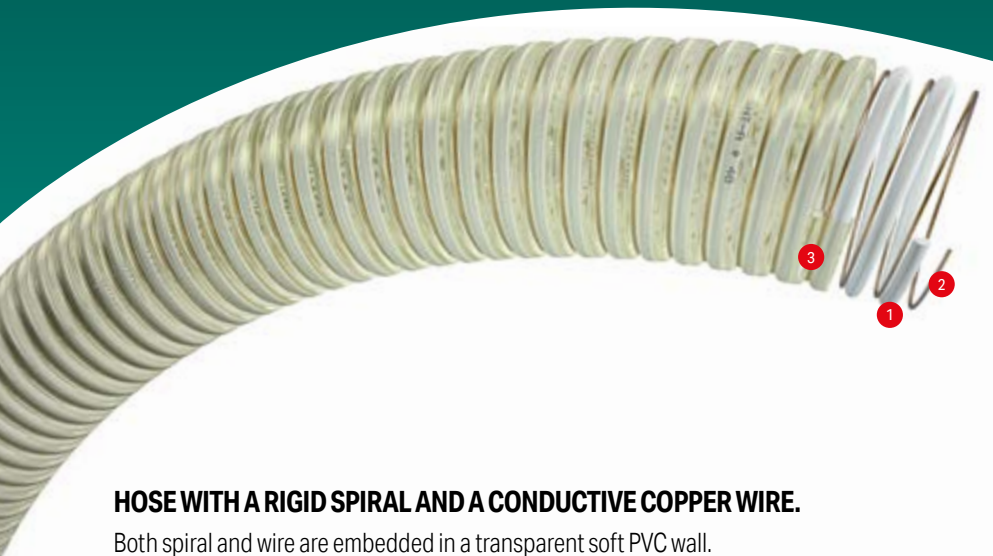
We recommend to use SPIRABEL® MDSO or SPIRABEL® PUA2 for the transfer of hydrocarbons.

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Transparent	
								25 m	50 m
20	+/- 1,0	2,6	242	21	7	900	60	167124	167137
25	+/- 1,0	2,7	300	21	7	900	75	167140	167153
30	+/- 1,0	2,7	359	18	6	900	90	167166	167172
32	+/- 1,0	2,8	387	18	6	900	95	167185	167198
35	+/- 1,0	3	475	18	6	900	105	167201	167214
38	+/- 1,0	3	504	18	6	900	115	167227	167230
40	+/- 1,0	3	523	18	6	900	120	167243	167256
45	+/- 1,0	3,1	614	15	5	900	135	167269	167272
50	+/- 1,0	3,3	736	15	5	900	150	167285	167298
55	+/- 1,0	3,3	784	15	5	900	165	167301	
60	+/- 0,6	3,3	873	15	5	900	180	167662	033873
63	+/- 1,0	3,3	960	15	5	900	190	167327	167330
70	+/- 0,6	3,4	1040	12	4	900	210	167675	
75	+/- 1,0	4,8	1200	12	4	900	300	033243	033254
80	+/- 1,0	5,3	1350	9	3	900	320	033915	
90	+/- 1,0	6,1	1650	9	3	900	360	033906	
100	+/- 1,0	6,1	1970	9	3	900	500	033928	
110	+/- 1,0	6,1	2310	9	3	900	550	033931	
120	+/- 1,0	6,3	2540	9	3	900	600	033944	
151	+/- 1,0	6,3	4200	9	3	900	755	148913	

Smooth inner wall.
Smooth outer wall to Ø 70mm.

SPIRABEL® SNT-A



- 1 White spiral in rigid PVC
- 2 Conductive copper wire
- 3 Wall in soft and transparent PVC

HOSE WITH A RIGID SPIRAL AND A CONDUCTIVE COPPER WIRE.

Both spiral and wire are embedded in a transparent soft PVC wall.

APPLICATIONS

Suction and delivery of low abrasive powders, transfer of grains, suction of plastic compounds in granules or powders, transfer of liquids

SECTORS OF ACTIVITY

Agriculture, transformation of plastics

MARKING

SNT-A Ø inn [Batch number]

ADVANTAGES

Thanks to its rigid spiral, SPIRABEL® S.N.T.-A is both resistant to vacuum and crushing. It can withstand repeated flexing and its transparency allows observation of transferred products. This hose should be used where there is a risk of electrostatic charges from the abrasion on the floor.

SPIRABEL® S.N.T.-A smooth inner wall assures low flow losses, avoids retention zones and helps the cleaning.

CONNECTORS








Symmetrical connectors (Guillemin or Storz) with wire collars as cover is not smooth. Swage fittings and band collars are not advised as they could lead to leakage or spiral break. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue. Do not use SPIRABEL® S.N.T.-A for the transfer of hydrocarbons. We recommend using SPIRABEL® M.D.S.O or SPIRABEL® PUA2 for this application. For very abrasive powders, use polyurethane hoses like SPIRABEL® PUA2.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Transparent	
								25 m	50 m
40	+/- 0,8	4	582	22,5	7,5	900	160	137128	136925
50	+/- 1,0	4,5	824	19,5	6,5	900	200	137144	136941
60	+/- 1,0	4,5	970	18	6	900	240	137157	

SPIRABEL® SISE



- 1 Anti-impact rigid PVC spiral reinforcement
- 2 Flexible, smooth PVC bore

MULTIPURPOSE HOSE, COLD FLEXIBLE.

Reinforced with a rigid and shock-proof PVC spiral in a black soft PVC wall.

APPLICATIONS

Agricultural spraying, seed drills, transfer of alcohol

SECTORS OF ACTIVITY

Agriculture

Without marking

ADVANTAGES

SPIRABEL® SISE has a good resistance to vacuum and is very flexible even in cold weather thanks to its special PVC wall.

Its smooth inner wall assures low flow losses, avoids retention zones and assists cleaning. SPIRABEL® SISE can be used to transfer food liquids and even alcohol up to 50% at 60°C.

CONNECTORS

Symmetrical connectors (Guillemin or Storz) with wire collars as cover is not smooth. Swage fittings and band collars are not advised as they could lead to leakage or spiral break. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

	+/- mm							Black		
								25 m	30 m	50 m
30	+/- 1,0	2,5	340	12	4	700	90	032663		
32	+/- 1,0	2,5	360	12	4	700	95			032668
40	+/- 1,0	2,9	500	12	4	700	120			032671
51	+/- 1,0	3,2	730	12	4	700	155		032679	032680
60	+/- 1,0	3,2	840	12	4	700	180			032683

SPIRABEL® GMDS



- 1 Shock-proof spiral reinforcement
- 2 Flexible PVC green wall

MULTIPURPOSE HOSE.

Reinforced with a white, rigid and shock-proof PVC spiral in a soft PVC wall.

APPLICATIONS

Multipurpose

ALL SECTORS OF ACTIVITY

MARKING

SPIRABEL GMDS Ø inn [Batch number]

ADVANTAGES

SPIRABEL® GMDS is a resistant, flexible and economic hose. Its very smooth internal wall reduces the flow losses.

CONNECTORS








Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak proof connection and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A. We recommend to use SPIRABEL® MDSO or SPIRABEL® PUA2 for the transfer of hydrocarbons.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 m	Green 30 m
25	+/- 0,8	3,4	360	15	5	950	60	033207
32	+/- 0,8	3,5	460	15	5	950	75	034380
38	+/- 0,8	3,7	570	15	5	950	90	034383
51	+/- 1,0	4,3	830	15	5	950	95	033233
63	+/- 1,0	4,4	1050	12	4	950	115	034193
76	+/- 1,0	5,3	1470	12	4	950	120	033255
102	+/- 1,0	6,3	2165	9	3	950	180	033920
152	+/- 1,0	7,2	4220	9	3	950	320	148914

SPIRABEL® MDSF AL



(EU) N°10/2011



- 1 Shock-proof spiral reinforcement
- 2 Flexible PVC wall (transparent or green tint)

COLD FLEXIBLE FOOD HOSE FOR HEAVY-DUTY INDUSTRIAL APPLICATIONS.

Rigid shock-proof PVC reinforced spiral in flexible PVC wall.

APPLICATIONS

Applications in the food industry for delivery foodstuffs conform the regulation 10/2011/EU - A/B/C/D1

SECTORS OF ACTIVITY

Food processing (factories and cooperatives), wine producing

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING

SPIRABEL MDSF AL (EU) N° 10/2011 Ø inn [Batch number]

ADVANTAGES

The new generation of suction and delivery hoses with shockproof PVC reinforced spiral for the highest demands on quality and performance. Robust and easy to handle, versatile in use, convincing in its application. The SPIRABEL® MDSF AL is very flexible and suitable for use at low temperatures down to -25° C.

- Smooth interior and exterior
- Robust construction
- Abrasion resistant
- UV, ozone, weather resistant
- Good chemical resistance
- Application temperature: -25° C to + 60° C

CONNECTORS








Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak-proof connection and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mmHg	Green	
								20 m	30 m
63	+/- 1,0	5,3	1274	12	4	990	221		176073
76	+/- 1,0	5,6	1716	12	4	990	266		137215
102	+/- 1,0	7,1	2647	9	3	990	357		137244
151	+/- 1,5	9,5	4900	6	2	990	680	176202	

SPIRABEL® VENDANGES SF



(EU) N°10/2011



990

mbar



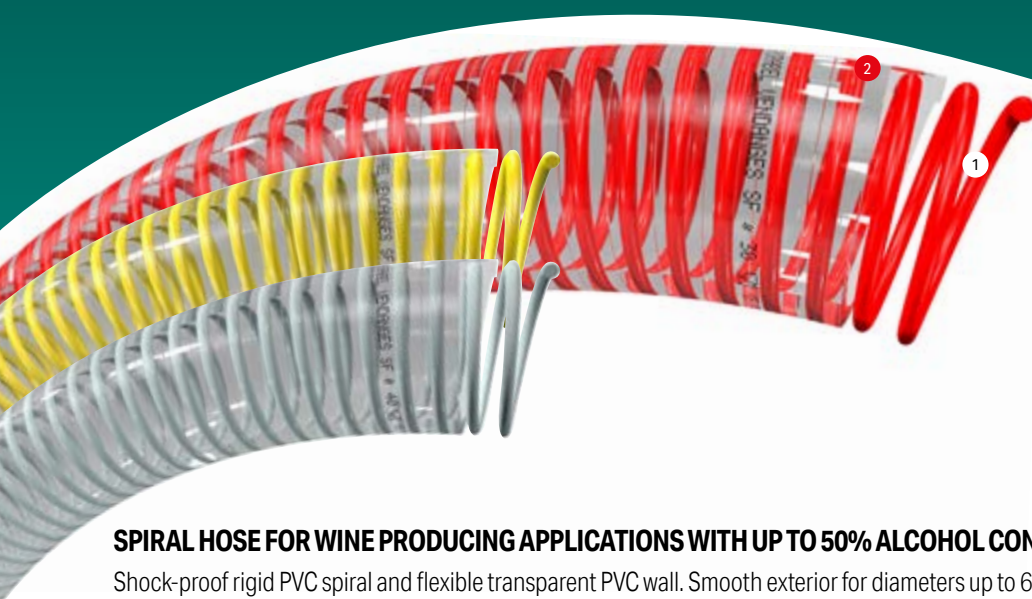
21 | 15

bar

+60

- 25

°C



- 1 Red spiral in shock-proof rigid PVC
- 2 Flexible transparent PVC wall

SPIRAL HOSE FOR WINE PRODUCING APPLICATIONS WITH UP TO 50% ALCOHOL CONTENT.

Shock-proof rigid PVC spiral and flexible transparent PVC wall. Smooth exterior for diameters up to 63mm. Food quality.

APPLICATIONS

Wine growing, transfer of food liquids

SECTORS OF ACTIVITY

Wine producing, food processing

SIMULANTS A, B, C, D1

- fruit juices
- wines

- alcohols
- milk

MARKING SPIRABEL VENDANGES SF Ø inn (EU) N° 10/2011 - GARANTI SANS PHTALATES - QUALITÉ SOUPLE À FROID [Batch number]

ADVANTAGES

With its excellent properties under pressure and during suction, SPIRABEL® VENDANGES SF hose is extremely flexible, even at low temperatures, thanks to its specially formulated flexible PVC core.

Its smooth interior minimizes flow loss, avoids retention areas and makes rinsing easy. Its outer layer is also smooth to make it easy to tighten the collars and reduce abrasion on the ground. SPIRABEL® VENDANGES SF is perfect for transferring food liquids and conveying alcoholic beverages up to 50% alcohol content at 40°C.

CONNECTORS

Guillemin or Storz symmetrical connectors, cam or universal joint connectors.








Fixings with band collars, single-thread or spiral collars (SERFLEX).

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

	+/- mm							Red Spiral		Yellow Spiral		Translucide Spiral
								25 m	50 m	25 m	50 m	25 m
40	+/- 1,0	4,3	699	21	7	990	144	148939	148942	148940		148941
50	+/- 1,0	4,7	1020	21	7	990	175	148955	148968		148969	148957
60	+/- 1,0	4,8	1215	18	6	990	210	148971				
63	+/- 1,0	5,3	1351	18	6	990	220	148997				
70	+/- 1,0	5,5	1603	18	6	990	245	149013				149015
80	+/- 1,0	5,7	1798	15	5	990	280	149039				
100	+/- 1,0	7	2622	15	5	990	350	149042				
120	+/- 1,0	8,2	3496	15	5	990	420	149055				

SPIRABEL® MDSE



- 1 Shock-proof spiral reinforcement
- 2 Flexible PVC wall, grey

FLEXIBLE HOSE FOR HEAVY-DUTY INDUSTRIAL APPLICATIONS.

Rigid shock-proof PVC, reinforced spiral in flexible PVC wall.

APPLICATIONS

Emptying and draining, equipment for lorries and liquid slurry tanks

SECTORS OF ACTIVITY

General industry, agriculture, road works, civil engineering

MARKING

SPIRABEL MDSE Ø inn [Batch number]

ADVANTAGES

The new generation of suction and delivery hoses with shockproof PVC reinforced spiral for the highest demands on quality and performance. Robust and easy to handle, versatile in use, convincing in its application. The SPIRABEL® MDSE is very flexible and suitable for use at low temperatures down to -25° C.

- Smooth interior and exterior
- Robust construction
- Abrasion resistant
- UV, ozone, weather resistant
- Good chemical resistance
- Application temperature: -25° C to + 60° C

CONNECTORS

Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak-proof connection and increase the risk of the spiral being crushed and breaking.








CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

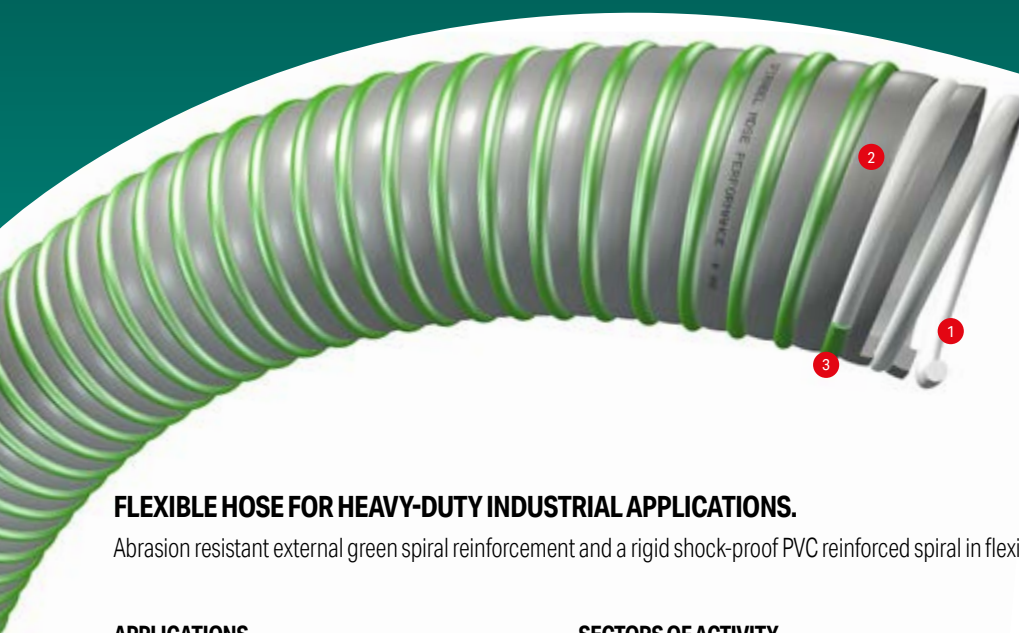
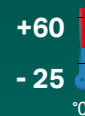
WARNING

For transfer of oil we recommend the use of SPIRABEL® MDSO.

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Grey		
								20 m	30 m	50 m
40	+/- 0,8	4,3	721	15	5	990	140		166920	
51	+/- 1,0	4,7	1055	15	5	990	179		166925	
60	+/- 1,0	5	1200	12	4	990	211		166927	
76	+/- 1,0	5,6	1748	12	4	990	266		166934	
80	+/- 1,0	5,7	1851	12	4	990	280			166938
102	+/- 1,0	7,1	2697	9	3	990	357		166943	
120	+/- 1,2	7,7	3250	6	2	990	540		166950	
127	+/- 1,3	8,2	3612	6	2	990	572	166951		
151	+/- 1,5	9,5	4950	6	2	990	680	166953		

SPIRABEL® MDSE PERFORMANCE



- 1 Shock-proof spiral reinforcement
- 2 Flexible PVC wall, grey
- 3 Shock proof green spiral reinforcement

FLEXIBLE HOSE FOR HEAVY-DUTY INDUSTRIAL APPLICATIONS.

Abrasion resistant external green spiral reinforcement and a rigid shock-proof PVC reinforced spiral in flexible PVC wall.

APPLICATIONS

Emptying and draining, equipment for lorries and liquid slurry tanks

SECTORS OF ACTIVITY

General industry, agriculture, road works, civil engineering

MARKING

SPIRABEL MDSE PERFORMANCE Ø inn [Batch number]

ADVANTAGES

The SPIRABEL® MDSE PERFORMANCE hose sets a new standard for heavy-duty industrial applications. Light and very flexible even at low temperatures, with excellent abrasion resistance due to its external spiral reinforcement. The smooth interior ensures low flow resistance and avoids the creation of build-up zones. The SPIRABEL® MDSE PERFORMANCE hose is particularly adapted for emptying and draining work.

CONNECTORS

Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak-proof connection and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

WARNING

For transfer of oil we recommend the use of SPIRABEL® MDSO.

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

	+/- mm							Grey		
								20 m	30 m	50 m
76	+/- 1,0	5,6	1748	12	4	990	250		166960	
80	+/- 1,0	5,7	1851	12	4	990	270		166961	166962
90	+/- 1,0	5,5	2250	9	3	990	290		166964	
102	+/- 1,0	7,1	2697	9	3	990	320		166963	
120	+/- 1,2	7,7	3250	6	2	990	460		166965	
151	+/- 1,5	9,5	4950	6	2	990	540	166967		

SPIRABEL® MDSO



- 1 Shock-proof spiral reinforcement
- 2 Flexible blue PVC wall, oil resistant

FLEXIBLE HOSE FOR HEAVY-DUTY INDUSTRIAL APPLICATIONS.

Rigid shock-proof PVC reinforced spiral in flexible PVC wall.

APPLICATIONS

Applications with exceptionally high flexibility and resistance to hydrocarbons in industry, engineering, construction, water supply and waste water technology, agriculture.

SECTORS OF ACTIVITY

General industry, agriculture, road works, civil engineering

MARKING

SPIRABEL MDSO Ø inn [Batch number]

ADVANTAGES

The new generation of suction and delivery hoses with shockproof PVC reinforced spiral for the highest demands on quality and performance. Robust and easy to handle, versatile in use, convincing in its application. The SPIRABEL® MDSO is very flexible and suitable for use at low temperatures down to -25° C.

- Smooth interior and exterior
- Robust construction
- Abrasion resistant
- UV, ozone, weather resistant
- Good chemical resistance
- Application temperature: -25° C to + 60° C

CONNECTORS








Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak-proof connection and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE

See table pages 106 to 109 column B.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Blue		
								10 m	30 m	50 m
25	+/- 0,8	4	485	15	5	990	88		176010	
32	+/- 0,8	4	585	15	5	990	112		176012	
38	+/- 0,8	4	715	15	5	990	133		176014	
51	+/- 1,0	4,6	1105	15	5	990	179	176017	176018	
63	+/- 1,0	5	1465	12	4	990	221		176020	
76	+/- 1,0	5,3	1780	12	4	990	266		176023	
80	+/- 1,0	5,5	2069	12	4	990	280			176009
102	+/- 1,0	6,3	2820	9	3	990	357		176026	

SPIRE ACIER



- 1 Galvanized steel spiral
- 2 Transparent PVC wall

FLEXIBLE TRANSPARENT HOSE WITH METALLIC SPIRAL.

With soft transparent PVC wall and galvanized steel spiral.

APPLICATIONS

Sewage, suction and delivery of slurry, transfer of chemical products, food products, liquids, powders and dust.

SECTORS OF ACTIVITY








Industry, building

SIMULANTS A, B, C, D1

- fruit juices
- wines
- alcohols
- milk

MARKING

SPIRE ACIER ø inn 57 (EU) N° 10/2011 Sim A,B,C,D1 [Batch number]

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 mm	Transparent	
								20 m	30 m
12	+/-0,6	2,5	186	34,5	11,5	900	23		135460
14	+/-0,6	3	220	33	11	900	26		135476
16	+/-0,6	3	250	31,5	10,5	900	30		034799
18	+/-0,6	3,5	286	30	10	900	32		135511
20	+/-1,0	3,5	392	30	10	900	34		034902
25	+/-1,0	4	506	28,5	9,5	900	42		034916
30	+/-1,0	4	610	27	9	900	50		034921
32	+/-1,0	4	640	27	9	900	53		190785
35	+/-1,0	4,5	726	24	8	900	58		034934
38	+/-1,0	4	776	22,5	7,5	900	63		190798
40	+/-1,0	5	920	22,5	7,5	900	66		034947
45	+/-1,0	5	1157	19,5	6,5	900	74		034959
50	+/-1,0	5,4	1300	18	6	900	82		034962
60	+/-1,0	6	1735	16,5	5,5	900	130		034991
63	+/-1,0	6	1756	16	5	900	140		034992
70	+/-1,0	6,5	2105	15	5	900	180		034827
76	+/-1,0	6,6	2270	12	4	900	200		034769
80	+/-1,0	6,6	2533	10,5	3,5	900	172	034743	
90	+/-1,0	6,9	2904	9	3	900	192	034756	
102	+/-1,0	7,8	3661	9	3	900	300	190710	
110	+/-1,1	7,6	3927	7,5	2,5	900	320	034869	
120	+/-1,2	7,6	4150	6,6	2,2	900	340	034872	
150	+/-1,5	9	6460	6	2	900	450	034975	

ADVANTAGES

Manufactured from high quality soft PVC with a galvanized steel spiral, SPIRE ACIER is highly resistant to vacuum and crushing. The transparent wall is UV resistant and allows easy visual control of the fluid and identification of blockages. The smooth inner wall reduces flow losses and enables easy cleaning. Spire Acier is suitable for food contact applications up to 40°C. Alcohol beverages up to 50% alcohol content can also be conveyed up to 40°C.

CONNECTORS

Guillemin or Storz symmetrical connectors, cam or universal joint connectors - Fixing with singlethread or spiral collars.

Crimping band collars are not recommended as they do not ensure perfect leak-proof connection and increase the risk of the spiral being crushed or breaking.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

SPIRABEL® BALNEO PISCINE


 +60
 21 | 15
 bar


 - 15
 °C



- 1 White spiral in rigid PVC
- 2 Wall in soft and white PVC. Inner and outer smooth

HOSE REINFORCED WITH A RIGID SPIRAL IN A WHITE SOFT PVC WALL.

APPLICATIONS

Swimmingpools and spas

MARKING

SPIRABEL BALNEO Ø out  [Batch number]

ADVANTAGES

The manufacturing process designed to make SPIRABEL® BALNEO assures smooth inner and outer walls and a high precision of the outer diameter. This brings a total compatibility with plastic connectors used for swimmingpools or spas.

This hose is highly resistant to crushing and vacuum.

CONNECTORS






Usual plastic connectors for swimmingpool building.

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

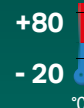
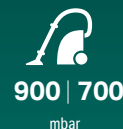
WARNING

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 g/m	 bar	 bar	 mm	White	
						25 m	50 m
32	+/- 0,4	346	21	7	80	168729	
40	+/- 0,4	513	19	6	120	168745	
50	+/- 0,4	675	18	6	190	168774	168780
63	+/- 0,4	943	15	5	250	168793	

Warning:
designation by the
outside diameter

SPIRABEL® PU A2



- 1 Flexible polyurethane bore
- 2 Rigid PVC spiral reinforcement
- 3 Copper conducting spiral

MULTIPURPOSE HOSE, RESISTANT AND VERY FLEXIBLE, ANTISTATIC.

Flexible, transparent polyurethane bore. Rigid grey PVC reinforcement spiral. Copper conducting wire embedded within the spiral.

APPLICATIONS

Transport of abrasives (powders, granules, mud, sand, cement, gravel, etc.), transfer of various liquids: paints, solvents, hydrocarbons

SECTORS OF ACTIVITY

Industry in general, including chemicals, Industry, building

SPIRABEL® PU A2
suitable for dried
foodstuffs only.

MARKING

PUA2 Ø inn [Batch number]

ADVANTAGES

Very resistant and light, SPIRABEL® PUA2 is ideal for transporting abrasives: its entirely smooth interior avoids deposits forming and the top-quality polyurethane used offers excellent abrasion-resistance. It has outstanding mechanical qualities: it easily withstands repeated flexing and has good suction-holding properties at temperatures up to 80°C. SPIRABEL® PUA2 is transparent, allowing easy monitoring of product circulation.

CONNECTORS








Guillemín or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect seal and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE

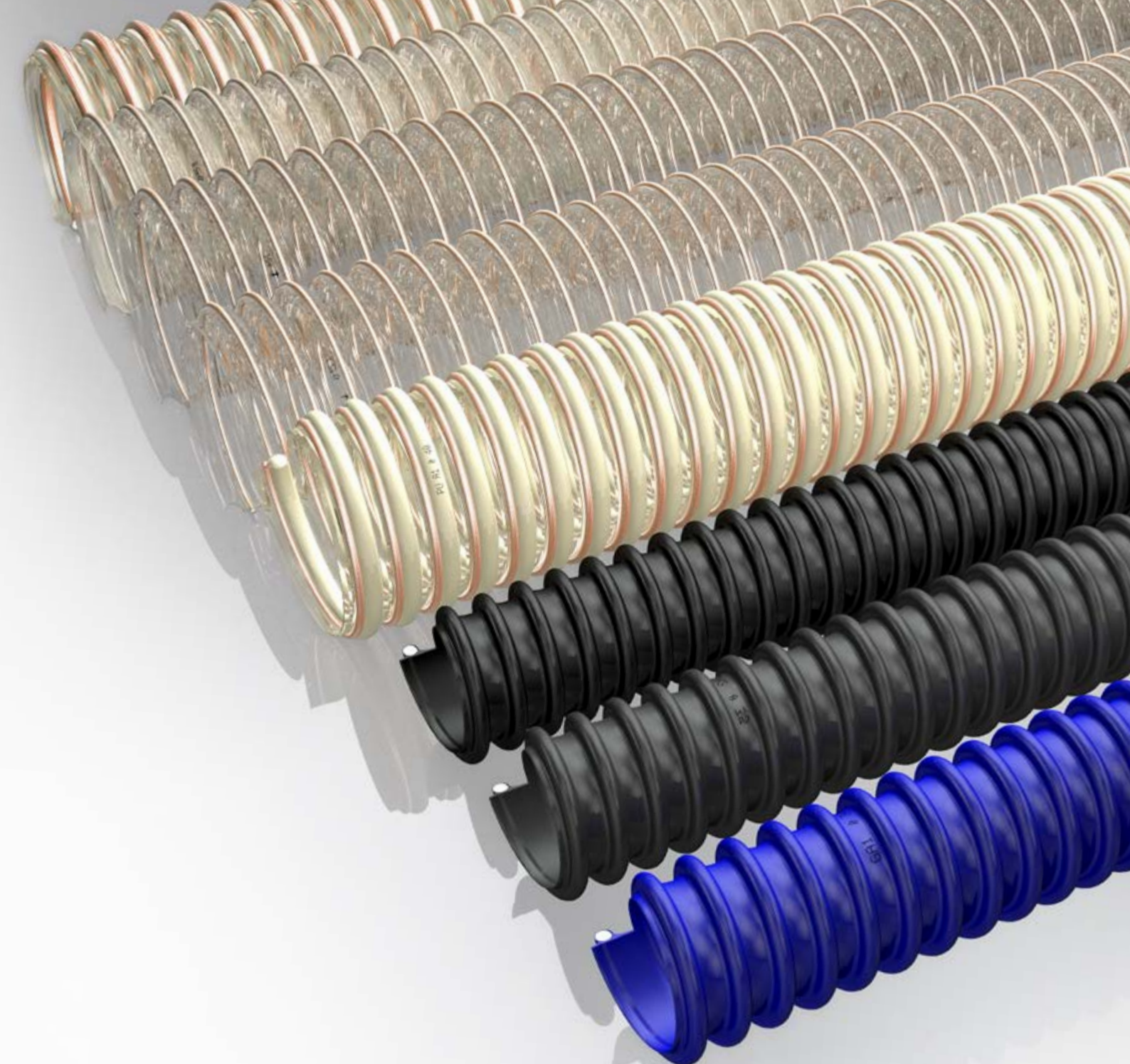
See table pages 106 to 109 column C.

WARNING

Spiral hoses have in general an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

 mm	+/- mm	 mm	 g/m	 bar	 bar	 mbar	 min	Transparent 10 m
40	+/- 1,0	4	448	12	4	900	190	150302
50	+/- 1,0	4,5	640	9	3	800	215	150315
60	+/- 1,0	5	854	9	3	800	230	150328
100	+/- 1,0	6,5	1616	6	2	700	420	150344





DUCTING : GA1, GA2, GA3, SPIRABEL® PUA1, WINDFLEX®

DUCTING HOSES

89

CHEMICAL RESISTANCE CHART OF HOSES

99

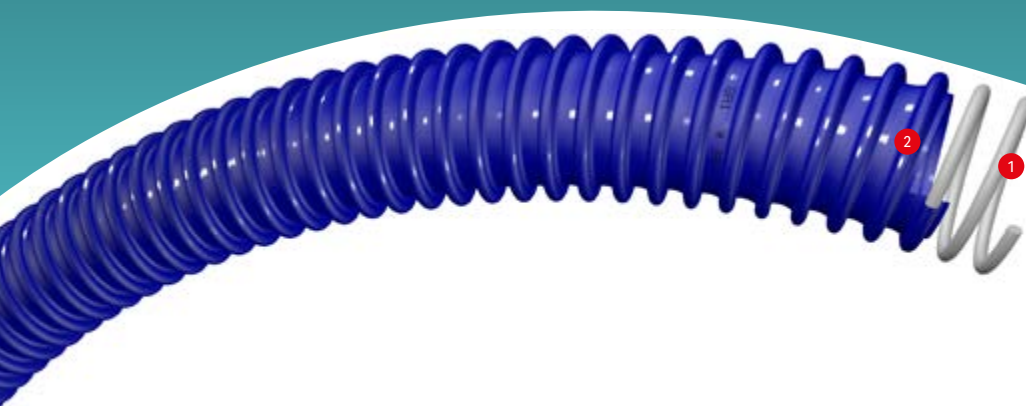
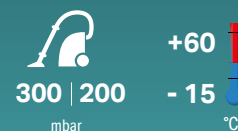
INDEX PRODUCTS BY ARTICLE CODE

105

GENERAL CONDITIONS OF SALES

113

GAINE GA1



- 1 Spiral in rigid PVC
- 2 Wall in soft blue PVC

FLEXIBLE DUCTING IN PVC FOR VENTILATION AND FUMES SUCTION.

Reinforced with a rigid PVC spiral.

APPLICATIONS

Ventilation, suction of air and fumes

SECTORS OF ACTIVITY

Industry

MARKING

GA1 Ø inn [Batch number]

ADVANTAGES









Ducting G.A.1 is very light and high flexible. Its smooth inner wall assures low flow losses.

CONNECTORS

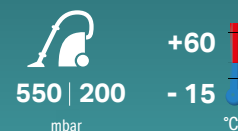
Connectors with wire collars or screwed fittings (left hand spiral).

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

								Blue 30 m
mm	mm	mm	mm	g/m	mbar	mm	mm	
25	±0.8	0,5	2	130	300	25		190813
30	±0.8	0,5	2	150	300	30		190826
35	±1.0	0,5	2,25	180	300	35		190839
38	±1.0	0,5	2,25	200	300	38		190913
40	±1.0	0,5	2,4	210	200	40		190842
50	±1.2	0,5	2,6	340	200	50		190855
63	±1.2	0,5	3	425	200	63		190926

GAINE GA2



- 1 Spiral in rigid PVC
- 2 Wall in soft grey PVC

FLEXIBLE DUCTING IN PVC FOR VENTILATION AND FUMES SUCTION.

Reinforced with a rigid PVC spiral.

APPLICATIONS

Ventilation, suction of air and fumes, agricultural spraying

SECTORS OF ACTIVITY

Industry & agriculture

MARKING

GA2 Ø inn [Batch number]

ADVANTAGES

G.A.2 is very light and high flexible. The smooth inner wall reduces flow losses.

CONNECTORS

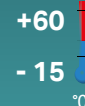
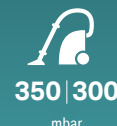
Connectors with wire collars or screwed fittings. (left hand spiral).

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

	+/- mm						Grey			
							10 m	20 m	30 m	50 m
20	±1,0	0,75	2,5	116	550	20				150708
25	±1,0	0,75	3	164	500	25				150711
35	±1,0	0,75	3	232	500	35				150737
38	±1,0	0,75	3	263	500	38				150795
40	±1,0	0,8	3,3	272	500	40				150740
50	±1,0	0,85	4	436	450	50			150753	
60	±1,0	0,85	4	524	400	60			035075	
70	±1,0	0,9	4	620	400	70			035088	
75	±1,0	0,9	4	670	400	75			150853	
80	±1,0	1	4	756	400	80			035133	
90	±1,0	1	4	806	400	90			035120	
100	±1,0	1	4	950	400	100		035098		
110	±1,1	1	4,5	1068	330	110		035104		
120	±1,2	1	4,5	1164	330	120		035146		
125	±1,3	1	5,5	1186	300	125		150811		
140	±1,4	1,1	4,5	1456	300	140		150766		
150	±1,5	1,1	5	1650	300	150		150779		
160	±1,6	1,1	5	1844	300	160	150782			
180	±1,8	1,1	5,5	2134	250	180	150824			
200	±2,0	1,1	5	2328	250	200	035117			
250	±2,5	1,1	6	3250	200	250	150837			

GAINE GA3



- 1 Spiral in rigid shock-proof PVC
- 2 Wall in soft black PVC

FLEXIBLE DUCTING IN PVC FOR VENTILATION AND FUMES SUCTION.

Reinforced with a rigid PVC spiral.

APPLICATIONS

Ventilation, suction of air and fumes, small pumps and water delivery (3 bar max.), seed drills

SECTORS OF ACTIVITY

Industry, Horticulture and agriculture

Without marking

ADVANTAGES







Ducting G.A.3 is very light and highly flexible. It has a good mechanical resistance and can even withstand low pressure (3 bar max.)

CONNECTORS

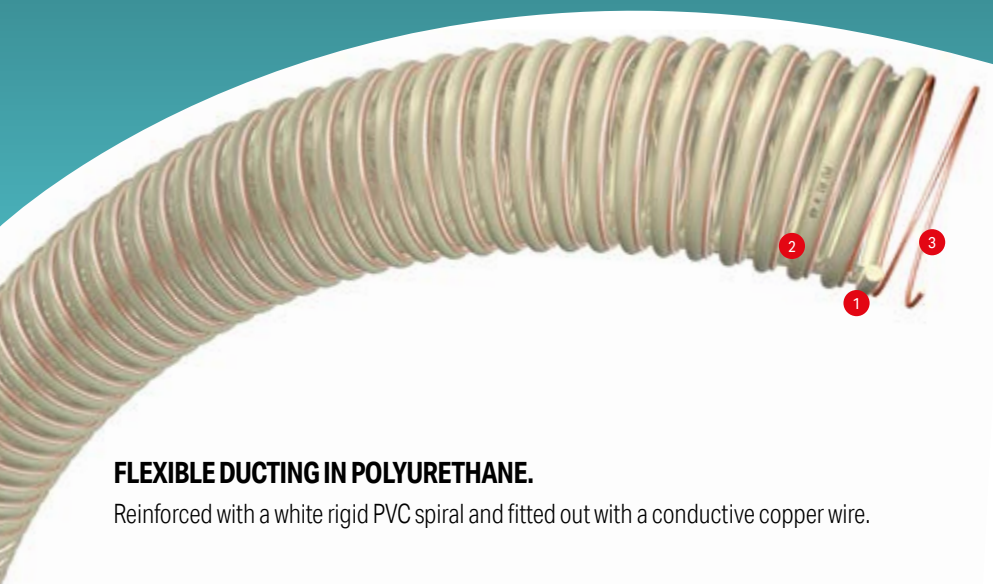
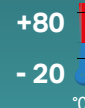
Connectors with wire collars or screwed fittings (right hand spiral).

CHEMICAL RESISTANCE

See table pages 106 to 109 column A.

 mm	+/- mm	 mm	 mm	 g/m	 mbar	 mm	Black	
							25 m	30 m
12	+/- 1,0	1	2,5	105	350	30		167617
20	+/- 1,0	1	2,5	160	350	35		167620
25	+/- 1,0	1	2,7	217	350	40		167633
32	+/- 1,0	1	3,1	260	350	45		167646
40	+/- 1,0	1	3,2	337	300	50	167659	167658

GAINE SPIRABEL® PU A1



- 1 Rigid PVC spiral
- 2 Wall in transparent polyurethane
- 3 Conductive copper wire

FLEXIBLE DUCTING IN POLYURETHANE.

Reinforced with a white rigid PVC spiral and fitted out with a conductive copper wire.

APPLICATIONS

Suction of: sawdust and chips, food powders, air and fumes

SECTORS OF ACTIVITY

Wood industry, food industry, chemical industry

Gaine Spirabel® PU A1
suitable for dried
foodstuffs only.

MARKING

PUA1 Ø inn [Batch number]

ADVANTAGES

P.U.A1 ducting has a very good mechanical resistance but is also very flexible. The copper wire allows an easy connection to dissipate electrostatic charges.







The inner wall is smooth and its transparent allowing the observation of transferred products.

CONNECTORS

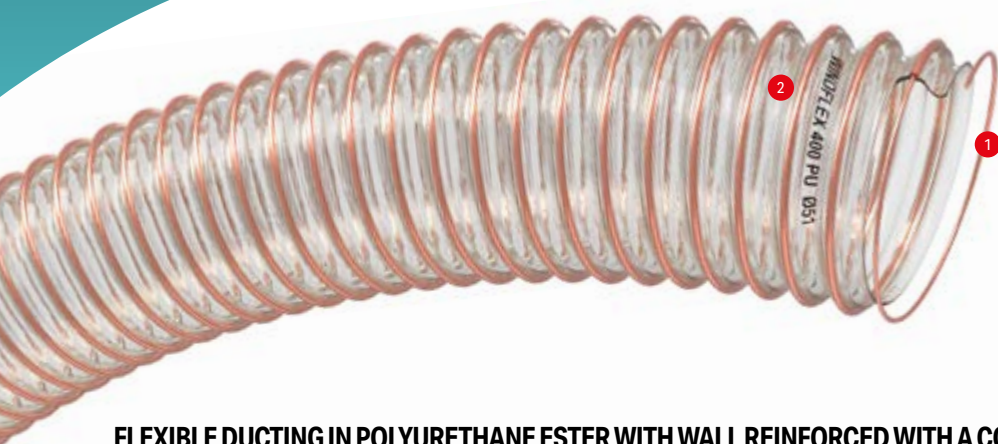
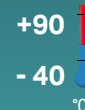
Connectors with wire collars. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 106 to 109 column C.

	\pm						Transparent 10 m
mm		mm	mm	g/m	mbar	mm	
30	$\pm 0,8$	0,4	3	190	500	45	150128
38	$\pm 0,8$	0,5	3,2	230	400	57	150157
40	$\pm 0,8$	0,5	3,3	250	400	60	150009
45	$\pm 1,0$	0,5	3,4	280	400	67	150160
50	$\pm 1,0$	0,5	3,5	340	400	75	150012
60	$\pm 1,0$	0,5	3,4	410	400	90	150025
63	$\pm 1,0$	0,5	3,6	430	400	94	150186
70	$\pm 1,0$	0,5	4,2	500	400	105	150199
76	$\pm 1,0$	0,5	4,4	550	400	114	150202
80	$\pm 1,0$	0,5	4,5	610	400	120	150031
90	$\pm 1,0$	0,6	4,4	715	400	135	150215
100	$\pm 1,0$	0,6	4,7	820	400	150	150044
110	$\pm 1,1$	0,6	5,2	890	300	165	150228
120	$\pm 1,2$	0,6	5,5	950	300	180	150057
150	$\pm 1,5$	0,7	6,4	1360	300	300	150086
160	$\pm 1,6$	0,8	6,5	1550	300	320	150099
200	$\pm 2,0$	0,8	6,8	2100	300	400	150115

WINDFLEX® 400 PU



- 1 Metallic spiral
- 2 Wall in transparent polyurethane



FLEXIBLE DUCTING IN POLYURETHANE ESTER WITH WALL REINFORCED WITH A COPPERED STEEL WIRE HELIX. SPRING QUALITY.

Potential equalisation, earthed at the ends of the steel spiral. PU rated non flammable UL94 V2. Halogen free.

APPLICATIONS

Suction of: Sawdust and chips, air and fumes, oil vapour extraction

SECTORS OF ACTIVITY



Wood industry

delivery in coils
except compressed articles

Marking

↓ WINDFLEX® 400 PU ↓ Ø int

[Batch number]
Made in France

 mm	+/- mm	 mm	 g/m	 mbar	 mm	Transparent		
						5 m	10 m	Transparent
51	0/+2,0	0,4	250	200	26		174733	10
60	0/+2,0	0,4	300	150	30		174734	10
70	0/+3,0	0,4	400	140	35		174747*	30
76	0/+3,0	0,4	380	100	38		174735	10
80	0/+3,0	0,4	400	100	40		174736	10
90	0/+3,0	0,4	440	100	45		174748*	30
102	0/+4,0	0,4	460	90	51		174737	10
120	0/+4,0	0,4	540	80	60		174738	10
127	0/+4,0	0,4	570	80	64		174739	10
140	0/+4,0	0,4	620	60	70		174740	10
152	0/+5,0	0,4	680	60	76		174741	10
160	0/+5,0	0,4	710	50	80		174742	10
180	0/+5,0	0,4	800	50	90		174743	10
203	0/+5,0	0,4	1010	50	102		174744	10
254	0/+5,0	0,4	1260	40	127		174745	10
300	0/+6,0	0,4	1520	30	152		174746	10
350	0/+6,0	0,4	2200	20	175		174749	10
400	0/+6,0	0,4	2520	20	200	174750*	174691*	5
500	0/+6,0	0,4	3150	10	250	174751*	174833*	5

*on request: delivery time 4 weeks

ADVANTAGES

WINDFLEX® 400 PU ducting has high flexibility and very good mechanical resistance, provided by the quality of the wall made from 100% polyurethane. Extremely good abrasion resistance. Excellent flexibility and elasticity. Remarkable for its wide temperature range of use.

CONNECTORS

Connectors with wire collars. Small diameters can be screwed into themselves. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See the Chemical resistance Chart of Hoses pages 106 to 109 column C.



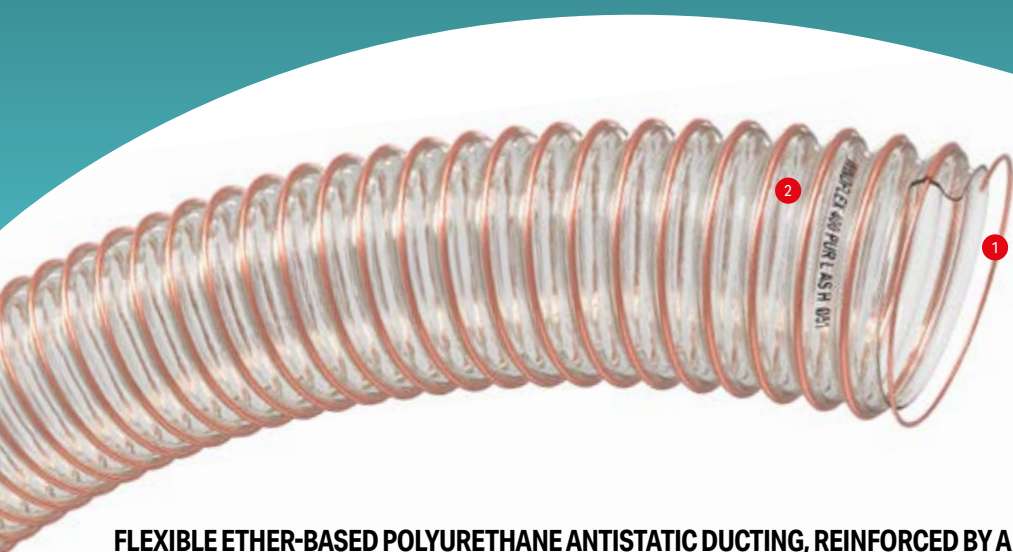
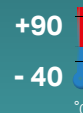
delivery in coils
except compressed articles



WE HAVE THE POSSIBILITY TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST. CONSULT US.

WINDFLEX® 400 AS

new



- 1 Metallic spiral
2 Wall in transparent polyurethane



FLEXIBLE ETHER-BASED POLYURETHANE ANTISTATIC DUCTING, REINFORCED BY A SPRING-LOADED QUALITY COPPER-PLATED STEEL COIL EMBEDDED IN THE WALL.

Electrical bonding by earthing the steel coil. UL94 V2 certified non-flammable polyurethane. Halogen-free.

APPLICATIONS

Industrial ventilation; air, smoke and oil vapour extraction. Suction of sawdust and fine shavings

SECTORS OF ACTIVITY






General industrial use, timber

Continuous use up to
70°C at 6 bar (80° at peak)
Resistivity <10⁶ Ω/m
complies with NF EN ISO 8031

Marking

↓ WINDFLEX® 400 AS-H ↓ Ø int

[Batch number]
Made in France

 mm	+/- mm	 mm	 g/m	 mbar	 m	Transparent		
						5 m	10 m	
51	0/+2,0	0,4	250	200	26		174678*	30
60	0/+2,0	0,4	300	150	30		174679*	30
70	0/+3,0	0,4	400	140	35		174680*	30
76	0/+3,0	0,4	380	100	38		174681*	30
80	0/+3,0	0,4	400	100	40		174682*	30
90	0/+3,0	0,4	440	100	45		174683*	30
102	0/+4,0	0,4	460	90	51		174684*	30
120	0/+4,0	0,4	540	80	60		174685*	10
127	0/+4,0	0,4	570	80	64		174686*	10
140	0/+4,0	0,4	620	60	70		174687*	10
152	0/+5,0	0,4	680	60	76		174688*	10
160	0/+5,0	0,4	710	50	80		174689*	10
180	0/+5,0	0,4	800	50	90		174690*	10
203	0/+5,0	0,4	1010	50	102		174672*	10
254	0/+5,0	0,4	1260	40	127		174673*	10
300	0/+6,0	0,4	1520	30	152		174674*	10
350	0/+6,0	0,4	2200	20	175		174675*	10
400	0/+6,0	0,4	2520	20	200	174676*		5
500	0/+6,0	0,4	3150	10	250	174677*		5

ADVANTAGES

Very flexible, compressible, abrasion-resistant ducting, Highly resistant to repeated bending. High-quality antistatic polyurethane in the composition. Electrical bonding by connecting the steel coil at both ends. The components are RoHS compliant and offer a good level of resistance to hydrolysis and microorganisms.

CONNECTORS

Regular single-wire sleeve clamps. Simply screwing two lengths of the same diameter together may also be possible in some cases (with small diameters). Before assembly, make sure that the connector is not hazardous to the inner tube (particularly in the case of poorly fettled and therefore sharp fittings).

CHEMICAL RESISTANCE

See the Chemical resistance Chart of Hoses pages 106 to 109 column C..



WE HAVE THE POSSIBILITY TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST. CONSULT US.

delivery in coils
except compressed articles



WINDFLEX® 600 PU AL



- 1 Copper color steel spiral
- 2 Wall in transparent polyurethane



FLEXIBLE DUCTING IN POLYURETHANE ETHER WITH WALL REINFORCED WITH A GALVANIZED STEEL WIRE HELIX. SPRING QUALITY.

Potential equalisation, earthed at the ends of the steel spiral. PU rated non flammable UL94 V2. Halogen free.

APPLICATIONS

Suction of: Sawdust and chips, air and fumes, oil vapour extraction

SECTORS OF ACTIVITY






Wood industry

Windflex® 600 PU AL
suitable for dried
foodstuffs only.

Marking

↓ WINDFLEX® 600 PU (EU) N°10/2011 ↓ Ø inn

[Batch number]
Made in France

 mm	+/- mm	 mm	 g/m	 mbar	 mm	Transparent		
						5 m	10 m	
40	0/+2,0	0,6	250	250	25		174720	10
51	0/+2,0	0,6	290	250	32		174721	10
60	0/+2,0	0,6	340	200	37		174719*	30
70	0/+3,0	0,6	430	140	43		174731	10
80	0/+3,0	0,6	500	100	49		174760*	30
90	0/+3,0	0,6	550	100	56		174761*	30
102	0/+4,0	0,6	560	90	63		174722	10
120	0/+4,0	0,6	710	80	74		174723	10
127	0/+4,0	0,6	750	80	78		174730	10
140	0/+4,0	0,6	830	80	86		174762*	20
152	0/+5,0	0,6	900	60	94		174724	10
160	0/+5,0	0,6	940	60	99		174725	10
180	0/+5,0	0,6	1060	50	111		174726	10
203	0/+5,0	0,6	1250	50	125		174727	10
254	0/+5,0	0,6	1560	50	157		174728	10
305	0/+6,0	0,6	1880	30	188		174729	10
350	0/+6,0	0,6	2620	20	216		174763*	10
400	0/+6,0	0,6	3000	20	247	174764*		5
500	0/+6,0	0,6	3750	10	309	174765*		5

*on request: delivery time 4 weeks

ADVANTAGES

WINDFLEX® 600 PU AL ducting is extremely flexible and due to the 100% ether-based polyurethane wall offers very good mechanical resistance. Extremely good abrasion resistance, flexibility and elasticity. Remarkable for its wide temperature range of use.

CONNECTORS

Connectors with wire collars. Small diameters can be screwed into themselves. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 106 to 109 column C.

delivery in coils
except compressed articles

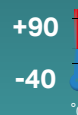
WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST. CONSULT US.

WINDFLEX® 805 EH

new



(EU) N°10/2011



- 1 Sheathed steel spiral
- 2 Wall in transparent polyurethane



FLEXIBLE ETHER-BASED POLYURETHANE DUCTING, REINFORCED BY A SPRING-LOADED QUALITY COPPER-PLATED STEEL COIL EMBEDDED IN THE WALL.

Wall thickness of 0.7 to 0.8 mm. Electrical bonding by earthing the steel coil. UL94 V2 certified non-flammable polyurethane.

APPLICATIONS

Suction and expulsion of all types of powders, pellets, filings, and shavings

SECTORS OF ACTIVITY

All industries, agriculture. Ducting developed especially for roadways.

Marking

↓ WINDFLEX® 805 PU EH ↓ Ø inn

[Batch number]
Made in France

mm	mm	mm	g/m	mbar	mm	Transparent	
180	0/+5,0	0.7	1950	120	200	174824*	20
200	0/+5,0	0.8	2200	100	222	174825*	20

*on request: delivery time 4 weeks

ADVANTAGES

Utmost flexibility and tried and tested mechanical strength. A wall thickness and helical pitch adapted according to diameters, in order to respond to the most common current requests.

CONNECTORS

Regular single-wire sleeve clamps. Simply screwing two lengths of the same diameter together may also be possible in some cases (with small diameters). Before assembly, make sure that the connector is not hazardous to the inner tube (particularly in the case of poorly fettled and therefore sharp fittings).

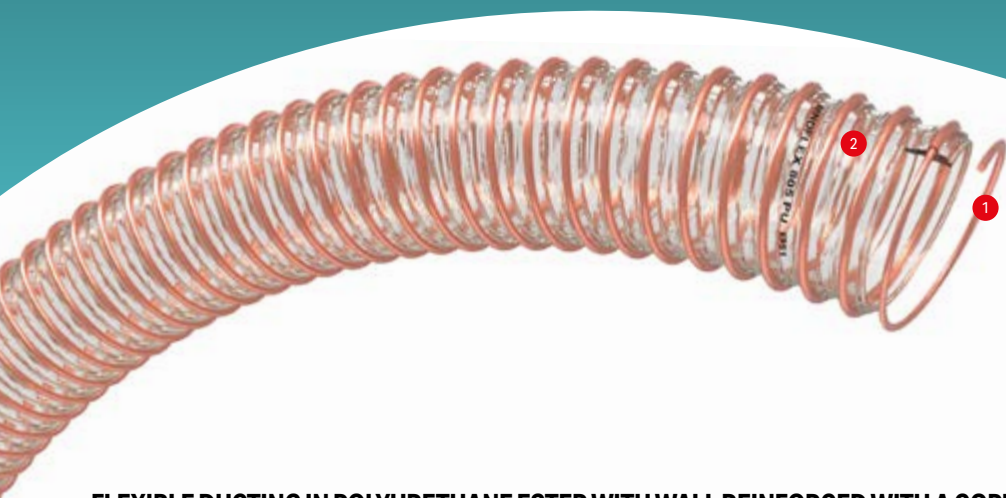
CHEMICAL RESISTANCE

See the Chemical resistance Chart of Hoses pages 106 to 109 column C..

Delivery in coils

WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST. CONSULT US.

WINDFLEX® 805 PU



- 1 Metallic spiral
- 2 Wall in transparent polyurethane



FLEXIBLE DUCTING IN POLYURETHANE ESTER WITH WALL REINFORCED WITH A COPPERED STEEL WIRE HELIX. SPRING QUALITY.

Thickness between 0,5 and 0,8mm. Potential equalisation, earthed at the ends of the steel spiral. PU rated non flammable UL94 V2. Halogen free up to and including diameter 160.

APPLICATIONS

Suction of many powders and granules






SECTORS OF ACTIVITY

Agriculture, perfume industry, industries including wood and paper, pastics processing, road maintenance

Marking

↓ WINDFLEX® 805 PU ↓ Ø inn

[Batch number]
Made in France

 mm	+/- mm	 mm	 g/m	 mbar	 mm	Transparent		
						5 m	10 m	
30	0/+2,0	0,5	190	350	27		174772*	20
51	0/+2,0	0,6	405	300	46		174703	10
60	0/+2,0	0,6	470	250	55		174704	10
70	0/+3,0	0,6	550	200	64		174773*	30
76	0/+3,0	0,6	600	200	69		174705	10
80	0/+3,0	0,6	640	150	73		174706	10
90	0/+3,0	0,6	720	150	82		174774	10
102	0/+4,0	0,7	910	150	93		174707	10
120	0/+4,0	0,7	1150	100	109		174708	10
127	0/+4,0	0,7	1230	100	115		174709	10
140	0/+4,0	0,7	1350	100	127		174710	10
152	0/+5,0	0,7	1480	100	138		174711	10
160	0/+5,0	0,7	1550	100	145		174712	10
180	0/+5,0	0,7	2110	100	164		174715	10
203	0/+5,0	0,8	2400	50	185		174716	10
254	0/+5,0	0,8	3000	50	231		174717	10
305	0/+6,0	0,8	3550	50	277		174718	10
350	0/+6,0	0,8	4110	50	318		174775*	10
400	0/+6,0	0,8	4760	20	364	174776*		5
500	0/+6,0	0,8	5880	10	455	174777*		5

*on request: delivery time 4 weeks

ADVANTAGES

WINDFLEX® 805 PU ducting provides an excellent compromise between a high flexibility and a proven mechanical resistance. Wall thickness and spiral pitch vary by diameters to optimise performance. The steel turn is sheathed in PVC color copper from 180mm diameter included.

CONNECTORS

Connectors with wire collars. Small diameters can be screwed into themselves. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

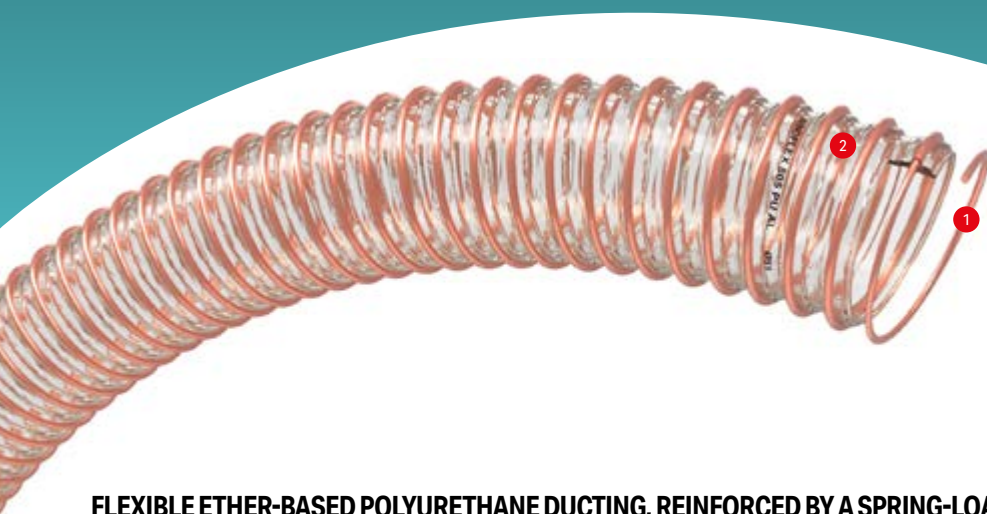
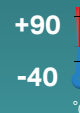
See the Chemical resistance Chart of Hoses pages 106 to 109 column C..

Delivery in coils

WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST. CONSULT US.

WINDFLEX® 805 AL

new



- 1 Metallic spiral
2 Wall in transparent polyurethane



FLEXIBLE ETHER-BASED POLYURETHANE DUCTING, REINFORCED BY A SPRING-LOADED QUALITY COPPER-PLATED STEEL COIL EMBEDDED IN THE WALL.

Wall thickness of 0.7 to 0.8 mm. Electrical bonding by earthing the steel coil. UL94 V2 certified non-flammable polyurethane. Halogen-free.

APPLICATIONS

Suction and expulsion of all types of powders, pellets, filings, and shavings

SECTORS OF ACTIVITY

All industries: agriculture, pharmaceuticals, perfumes, timber and paper, plastics, public roadworks

Windflex® 805 AL
suitable for dried
foodstuffs only.

Marking

↓ WINDFLEX® 805 PU AL (EU) N°10/2011 ↓ Ø inn

[Batch number]
Made in France

mm	+/- mm	mm	g/m	mbar	mm	Transparent		
						5 m	10 m	
32	0/+4,0	0,7	210	300	29		174813*	30
38	0/+4,0	0,7	270	300	35		174814*	30
51	0/+4,0	0,7	405	300	46		174781*	30
60	0/+4,0	0,7	470	250	55		174767*	30
76	0/+4,0	0,7	600	200	69		174779*	30
80	0/+4,0	0,7	640	150	73		174780*	30
90	0/+4,0	0,7	720	150	82		174782*	30
102	0/+4,0	0,7	910	150	93		174793*	10
110	0/+4,0	0,7	1080	150	100		174812*	10
120	0/+4,0	0,7	1150	100	109		174794*	10
127	0/+4,0	0,7	1230	100	115		174795*	10
140	0/+4,0	0,7	1350	100	127		174796*	10
152	0/+5,0	0,7	1480	100	138		174798*	10
160	0/+5,0	0,7	1550	100	145		174799*	10
203	0/+5,0	0,8	2300	50	185		174802*	10
254	0/+5,0	0,8	2900	50	231		174803*	10
300	0/+6,0	0,8	3460	50	277		174804*	10
350	0/+6,0	0,8	3980	50	318		174816*	10
400	0/+6,0	0,8	4550	20	364	174817*		5
500	0/+6,0	0,8	5700	10	455	174818*		5

*on request; delivery time 4 weeks

ADVANTAGES

Utmost flexibility and tried and tested mechanical strength. A wall thickness and helical pitch adapted according to diameters, in order to respond to the most common current requests.

CONNECTORS

Regular single-wire sleeve clamps. Simply screwing two lengths of the same diameter together may also be possible in some cases (with small diameters). Before assembly, make sure that the connector is not hazardous to the inner tube (particularly in the case of poorly fettled and therefore sharp fittings).

CHEMICAL RESISTANCE

See the Chemical resistance Chart of Hoses pages 106 to 109 column C..

Delivery in coils

WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS ON REQUEST. CONSULT US.

WINDFLEX® 1308 PU

new



- 1 Ducted steel coil
2 Translucent polyurethane wall



ESTER-BASED POLYURETHANE HOSE REINFORCED WITH A SPRING-LOADED QUALITY STEEL COIL. RECOMMENDED FOR INTENSIVE USE.

UL94 V2 certified non-flammable polyurethane.

APPLICATIONS

Suction and expulsion of powders, pellets, abrasive particles, oil fumes.






SECTORS OF ACTIVITY

All industries, timber and paper, plastics, quarries, construction

Marking

↓ WINDFLEX® 1308 PU ↓ Ø inn

[Batch number]
Made in France

	\pm					Transparent	
mm	mm	mm	g/m	mbar	mm	10 m	
40	0/+2,0	0,9	360	450	48	174840*	30
50	0/+2,0	0,9	400	400	60	174841*	30
60	0/+2,0	0,9	490	350	72	174843*	30
70	0/+2,0	0,9	630	350	84	174844*	30
76	0/+2,0	0,9	680	300	91	174845*	30
80	0/+2,0	0,9	700	300	96	174846*	30
90	0/+2,0	0,9	800	300	108	174847*	30
102	0/+2,0	1,1	980	300	122	174848*	10
110	0/+2,0	1,1	1140	250	132	174849*	10
120	0/+2,0	1,1	1240	250	144	174850*	10
130	0/+2,0	1,1	1400	200	156	174852*	10
140	0/+2,0	1,1	1450	200	168	174851*	10
150	0/+2,0	1,2	1550	200	180	174835*	10
160	0/+2,0	1,2	1650	160	192	174853*	10
180	0/+2,0	1,2	1850	150	216	174837*	10
200	0/+2,0	1,2	2050	120	240	174836*	10

*on request: delivery time 4 weeks

ADVANTAGES

Highly flexible ducting. Very smooth interior. Highly resistant to repeated bending. Good abrasion and vacuum resistance. Electrical bonding by connecting the steel coil at both ends.

CONNECTORS

Semi-heavy clamp or bearings. Before assembly, make sure that the connector is not hazardous to the inner tube (particularly in the case of poorly fettled and therefore sharp fittings).

CHEMICAL RESISTANCE

See table pages 106 to 109 column C.

Delivery in coils

WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS (500MM MAX) ON REQUEST.
CONSULT US.

WINDFLEX® 1500 PU



- 1 Copper color steel spiral
- 2 Transparent polyurethane thick wall



HEAVY DUTY FLEXIBLE HOSE IN TRANSPARENT POLYURETHANE ESTER, REINFORCED WITH A COPPER COLORED STEEL SPIRAL. THICK WALL.

Heavy Standard. PU rated non flammable UL94 V2.

APPLICATIONS

Transport of abrasives : powders, granules, mud, sand, cement, gravel, etc.

SECTORS OF ACTIVITY

Construction, mines

Marking

↓ WINDFLEX® 1500 PU ↓ Ø inn

[Batch number]
Made in France

Ø mm	+/- mm	Ø mm	g/m	mbar	mm	Transparent	
						10 m	
40	0/+2,0	1,5	440	700	60	174790	10
45	0/+2,0	1,5	490	600	68	174783	10
50	0/+2,0	1,5	550	600	75	174791	10
60	0/+2,0	1,5	750	550	90	174785	10
70	0/+2,0	1,5	860	500	105	174786*	50
76	0/+2,0	1,5	940	500	114	174787*	30
80	0/+2,0	1,5	970	450	120	174788*	30
90	0/+2,0	1,5	1140	450	135	174789*	30
100	0/+2,0	1,5	1320	400	150	174792	10

*on request: delivery time 4 weeks

ADVANTAGES

Thick 100% polyurethane polyester wall; chosen for its resistance to abrasion; extruded wall with reinforced steel wire helix. This technique provides a smooth internal wall surface and excellent flexibility while maintaining extreme durability.

CONNECTORS

Connectors with wire collars. Small diameters can be screwed into themselves. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 106 to 109 column C.

Delivery in coils

WE HAVE THE POSSIBILITY
TO MANUFACTURE OTHER LENGTHS
AND DIAMETERS (200MM MAX) ON REQUEST.
CONSULT US.





CHEMICAL RESISTANCE CHART OF HOSES

99

INDEX PRODUCTS BY ARTICLE CODE

105

GENERAL CONDITIONS OF SALES

113

Chemical resistance chart of hoses

Chemical resistance :

1 = Good

2 = Limited

X = Not compatible

	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Acetaldehyde	x	x	x	x	x	x	1	2	1	1	2	x	1	1	1	1
Acetamide	x	x			x	x	x	x	1	2	1				1	1
Acetic acid 10%	1	2	1	2	x	x	2	x	1	1	2	x	1	1	1	1
Acetic acid 25%	1	2	1	2	x	x			1	1	x	x	1	1	1	1
Acetic acid 50%	2	x	2	x	x	x			1	1	x	x	x	x	1	1
Acetic anhydride	x	x	x	x	x	x			2	x	2	x	1	1	1	1
Acetone	x	x	x	x	2	x	x	x	1	2	1	2	2	2	1	1
Acetophenone	x	x	x	x			1	1	1	2	1				1	1
Acetylene	1	1	1	1	1	1	1	1	1	1	1	1	x	x	1	1
Acrylonitrile	1	1	1	1	x	x	2	2	1	1			1	1	1	1
AdBlue®	1		1		1	x	1		1	1	2		1		1	1
Aliphatic hydrocarbons	x	x	1	2	1		1				1					
Allyl chloride	x	x	x	x	x		1	2	x	x			1	1	1	1
Alum	1	1	1	1	1	2	2	2	1	1			1	1	1	1
Aluminium chloride	1	1	1	1	1	2	1	2	1	1	1	1	x	x	1	1
Aluminium fluoride	1		1		x	x	1	2	1	1			1	1	1	1
Aluminium hydroxide	1		1		2				1				1	1	1	1
Aluminium sulfate	1	1	1	1	1	2	1	2	1	1	1		1	1	1	1
Ammonia (gas)	1		1		2	2	1	2	1	1	1		2	2	1	1
Ammonia (in water)	x	x	x	x	2	x	x	x	1	1	2	x	1	1	1	1
Ammonium Acetate	1	1	1	1	1	2	1	2	1	1					1	1
Ammonium chloride	1	1	1	1	1	2			1	1			1	1	1	1
Ammonium hydroxide	1	2	1	2	1				1				1	1	1	1
Ammonium metaphosphate	1		1		1				1				1	1	1	1
Ammonium nitrate	1	1	1	1	1	2	1	x	1	1			1	1	1	1
Ammonium persulfate	1		1		2				1				1	1	1	1
Ammonium phosphate	1	1	1	1	1		2	x	1	1			1	1	1	1
Ammonium sulfate	1	1	1	1	1	2	1	2	1	1	1	2	1	1	1	1
Ammonium thiocyanate	1		1		2				1				1	1	1	1
Amyl acetate	x	x	x	x	x	x	2	2	1	1	2		x	x	1	1
Amyl alcohol	1	2	1	2	2	x	1	2	1	1	1	2	2	2	1	1
Aniline	x	x	x	x	x	x			1	1	2		1	1	1	1
Aniline colouring	1	1	1	1	x	x	2	x	x	x			2	2	1	1
Antimony chloride 50%	1		1		2		2	2	1				x	x	1	1
Arsenic acid	1		1		x	x			1				2	2	1	1
Asphalt	x	x	x	x	x	x							2	2	1	1
Baryum carbonate	1		1		1				1				1	1	1	1
Benzaldehyde	x	x	x	x	x	x	x	x	1	1	2	2	x	x	1	1
Benzene	x	x	x	x	x	x			2	x	1	1	x	x	1	1
Benzyl alcohol	x	x			2	x	x	x	1	2	x	x			1	1
Benzyl chloride	x	x	x	x	x	x	1	2	x	x					1	1
Biodiesel	x	x			1				1		1					
Bisulfite detergents							1	x								
Bitumen	x	x	x	x							1				1	1
Bleach	1	2	1	2	2	x	x	x	1	1	x	x	1	1	1	1
Borax	1	2	1		1	2	x	x	1	1	x	x	1	1	1	1
Boric acid 10%	1	1	1	1	2	x	1	x	1	1	1	x	2	2	1	1
Bromhydric acid 10%	1	1	1	1	x	x	x	x	1	1			x	x	1	1
Bromhydric acid 50%	x	x	x	x	x	x	x	x	1	1			x	x	1	1
Bromine	x	x	x	x	x	x	2	x	x	x	x	x	x	x	1	1
Bromobenzene	x	x	x	x			x	x	x	x			x	x	1	1
Butane	2	2	2	2	1	1	x	x	1	1	1		2	2	1	1
Butyl acetate	x	x	x	x	x	x	2	2	1	1	1	1	2	2	1	1
Butyl alcohol	1	2	1	2	2	x	1	2	x	x	1	2	1	1	1	1
Butyl ether	1		1		x				1				x	x	1	1
Butyl glycol	x	x	x	x	x	x			1				2	2	1	1
Butyl stearate	x	x	x	x	1		x	x	x	x			1	1		
Butyric acid	1		1		x	x			1	1			x	x	1	1
Calcium bisulfite	1	1	1	1	1		1	x	1	1			1	1	1	1
Calcium carbonate	1		1		1				1				1	1	1	1
Calcium chlorate	1		1		1				1				1	1	1	1
Calcium chloride	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Calcium hydroxide	1	1	1	1	1				1				1	1	1	1
Calcium hypochlorite 15%	1		1		x	x	x	x	1				x	x	1	1
Calcium sulphide	1		1		x				1				x	x	1	1
Carbon bisulfur					x	x	x	x	2	2			x	x	1	1
Carbon dioxide (wet)	1	2	1	2	2	x			1		1	x	1	1	1	1
Carbon dioxide (dry)	1	1	1	1	1		1		1	2	1		1	1	1	1
Carbon monoxide	1	1	1	1	1	1	1	1	1	1	2	x	1	1		
Carbon sulfide	x	x	x	x	2	x	x	x	x	x	1	x	2	2	1	1
Carbon tetrachloride	x	x	x	x	x	x	x	x	x	x	2	x	2	2	1	1
Carbonic acid	1		1		1				1	1					1	1
Castor oil	x	x	1	1	1	1	1	1	1	2	1		1	1	1	1
Chloracetic acid	x	x	x	x	x	x	x	x	1	1	x	x	1	1	1	1
Chlorine (dry)	x	x	x	x	x	x	x	x	2	x	x	x	x	x	1	1
Chlorine (wet)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	1

Chemical resistance chart of hoses

Chemical resistance :

1 = Good

2 = Limited

X = Not compatible

Chemical resistance : 1 = Good 2 = Limited X = Not compatible	A		B		C		D		E		F		G		H	
	PVC				Polyurethane		Polyester		Polyethylene		Polyamide 6-12		Silicone		PTFE	
	Standard and TRICOLAIR®		Special chemical formula		TECHNOBEL® PU, Tube PU calibré		TECHNOBEL®		Profiline Aqua+ Profiline Aqua+Soft		Tube PA calibré		VITRYL®		Tubes PTFE	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Chlorine water	1	x	1	x	2	x	x	x	1	2	2	x	2	2	1	1
Chlorobenzene	x	x	x	x	x	x	x	x	2	2	2	x	2	2	1	1
Chloroform	x	x	x	x	x	x			x	x	x	x	x	x	1	1
Chlorosulfonic acid	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	1
Chromic acid 50%	x	x	x	x	x	x	x	x	1	2	x	x	x	x	1	1
Citric acid	1		1		2	x	1	1	1	1	2	x	x	x	1	1
Coal tar	x	x	x	x			1	2			1	2			1	1
Cooking oil					1		x		1	2	1				1	1
Copper Acetate					1	2	1	2	1	1			1	1	1	1
Copper arsenate					1				1				1	1	1	1
Copper chloride	1	1	1	1	1	2			1	1	2	2	1	1	1	1
Copper cyanide					2				1	1			1	1	1	1
Copper nitrate					x				1				1	1	1	1
Copper sulfate	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1
Creosote oil	x	x	1	2			2	x	x	x	1		2	2	1	1
Cresols	x	x	x	x	x	x	x	x	2	x	x	x	2	2	1	1
Cyanhydric acid					2	x	1	x	1	1					1	1
Cyclohexane	1	1	1	1	2	x	1	x	1	1	1	2	x	x	1	1
Cyclohexanol	x	x	x	x	x	x	x	x	1	1	1	x			1	1
Cyclohexanone	x	x	x	x	x	x	x	x	2	2	1	x	2	2	1	1
Decalin							1	2	2	x					1	1
Diacetone	x	x	x	x	x	x	x	x	x	x					1	1
Diacetone alcohol	x	x	x	x	2	x	x	x	1	1	1		1	1	1	1
Dibutyl phtalate	x	x	x	x	x	x			x	x			2	2	1	1
Dichlorethane	x	x	x	x	x	x	x	x	x	x			x	x	1	1
Diesel oil	x	x	1	2	1	2	1	2	1		1	1	x	x	1	1
Diethyl ether	x	x	x	x	2				x	x			x	x	1	1
Diethylamine	x	x	x	x			x	x					1	1	1	1
Diethylene glycol	1		1		2	2	1	2	1	1	2		1	1	1	1
Dimethylamine	x	x	x	x			x	x	2	2					1	1
Dimethylformamide	x	x	x	x	x	x	x	x	1	2	2				1	1
Dioxane	x	x	x	x			1	2	2	2	1	2	1	1	1	1
Diphenyl							1	2	1	1	1				1	1
E85	x	x	x	x	1	1	1	2	x	x	1	x	x	x	1	1
Ethanolamine	x	x	x	x	2		x	x	1		1				1	
Ethyl acetate	x	x	x	x	x	x	2	2	2	2	1	1	1	1	1	1
Ethyl acrylate	x	x	x	x			1	2					1	1	1	1
Ethyl alcohol <50%	1	2	1	2	2	x	1	2	1	2	2	x	1	1	1	1
Ethyl alcohol >50%	x	x	2	x	2	x	1	2	1	2	2	x	1	1	1	1
Ethyl benzene	x	x	x	x	x	x	x	x	2	2					1	1
Ethyl cellulose							2	x					2	2	1	1
Ethyl chloride	x	x	x	x	x	x			x	x			x	x	1	1
Ethyl ether	x	x	x	x	2	x	1	x	x	x			x	x	1	1
Ethyl mercatan	x	x					1	2	x	x					1	1
Ethylene					1	1	1	2							1	1
Ethylene chloride	x	x	x	x	x	x	1	2	x	x	2	2	x	x	1	1
Ethylene diamine							x	x	1	1			1	1	1	1
Ethylene glycol	2	x	2	x	2	x	1	2	1	x	2		1	1	1	1
Ethylene glycol 30%	1	2	1	2	2	x	1	2	1	1	1		1	1	1	1
Fat	x	x				x		x	1		1				1	2
Ferric chloride	1	1	1	1	1	2	2	2	1	1	1		1	1	1	1
Ferric sulphate	1		1		2				1	1			1	1	1	1
Ferrique sulphate	1	1	1	1	1	2	1	1	1	1			1	1	1	1
Ferrous chloride	1		1		x		1	2	1	1	1		1	1	1	1
Fluorhydric acid 10%	1	x	1		2				2	2			2	2	1	1
Fluorhydric acid 30%	x	x	x	x	2				2	x			2	2	1	1
Fluorhydric acid 40%	x	x	x	x	x	x	x	x	x	x	x	x	2	2	1	1
Fluoride Boric acid 65%	1		1		x	x			1				1	1	1	1
Fluoride silicic acid					x	x			1				2	2	1	1
Fluorine	x	x	x	x	x	x	x	x	1	1	x	x	x	x	1	1
Fluosilicic acid 30%					x	x	1	x	1	1			x	x	1	1
Formaldehyde 40%	2	x	2	x	2		2	x	1	1			1	1	1	1
Formic acid 10%	2	x	x	x	x	x	1	x	1	2			1	1	1	1
Formic acid 80%	x	x	x	x	x	x	2	x	1	1	x	x	2	2	1	1
Freon 11, 113, 114, 12, 21, 22	x	x	x	x	x	x	1	x	2	2	1	2				
Fuel oil	x	x	1	2	1	2	1	2	2	x	1	1	x	x	1	1
Furan (furfuran)							1	2					2	2	1	1
Furfural	1	1	1	1	x	x	1	2	x	x					1	1
Gallic acid	1		1		x	x			1				1	1	1	1
Gelatin	1	1	1	1	1	1	1	1	1	1			1	1	1	1
Glucose	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1
Glycerol	x	x	x	x	1	1	1	1	1	1	1	2	1	1	1	1
Glycol chlorohydrin							2	x	1	1	x	x			1	1
Halogenated hydrocarbons	x	x			x		2				2					
Hexane	x	x	x	x	2	x	1	x	1	1	1	2	x	x	1	1
Hydraulic oil											1					

Chemical resistance chart of hoses

Chemical resistance :

1 = Good

2 = Limited

X = Not compatible

	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Hydrazine	x	x	x	x			x	x	1	1			1	1	1	1
Hydrochloric acid (concentrated)	2	x	2	x	x	x	x	x	1	1	x	x	2	2	1	1
Hydrochloric acid 15%	1	1	1	1	2	x	x	x	1	1	x	x	1	1	1	1
Hydrogen peroxyde 10%	1	2	1	2	2				1	2	x	x	1	1	1	1
Hydrogen peroxyde 30%	1	x	1	x	2	x	2	x	1	2	x	x	1	1	1	1
Hydrogene	1	1	1	1	1	1	1	1	1	1					1	1
Hydrogene sulfide	x	x	x	x	2	x	1	1	1	1			1	1	1	1
Hydroquinone	1		1				1	1	1	1					1	1
Isobutyl alcohol					2	x	1	2	2	2					1	1
Isooctane	x	x	x	x	1	1	x	x	2	x	1				1	1
Isopropyl Acetate	x	x	x	x	x	x	2	2					2	2	1	1
Isopropyl ether	x	x	x	x	2	x	2	x	x	x					1	1
Isopropyl alcohol	1	2	1	2	2	x	1	2	1	1	2		2	2	1	1
Kerosene J.P.1	x	x	1	2	1		1	x	x	x	1	2	x	x	1	1
Kerosene J.P.4	x	x	1	2	1		1	x	x	x	1	1	x	x	1	1
Lactic acid 10%	x	x	x	x	2	x	1	x	1	2	1	1	1	1	1	1
Lead arsenate	1		1		1		1	2	1				1	1	1	1
lime	1	1	1	1	1	2							1	1	1	1
Lubricating oil	x	x	1	2	1	1	1	1							1	1
Magnesia					1	1	1	1	1	1					1	1
Magnesium carbonate	1		1		1				1				1	1	1	1
Magnesium chloride	1	1	1	1	1	2			1	1			1	1	1	1
Magnesium hydroxide	1	1	1	1	1				1		1		1	1	1	1
Magnesium Nitrate	1		1		2				1				1	1	1	1
Magnesium sulphate	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Manganese sulphate	1		1		2				1				1	1	1	1
Mercuric chloride	x	x	x	x	1	2	1	2	1	1			1	1	1	1
Mercury	1	1	1	1	1		1	1	1	1					1	1
Methane					1	1	1	1	1	1	1		x	x	1	1
Methyl Acrylate							1	2	1	1						
Methyl alcohol 6%	1	1	1	1	1	2	1	2	1	1	x	x	1	1	1	1
Methyl bromine	x	x	x	x					x	x					1	1
Methyl chloride	x	x	x	x	x	x	x	x	x	x	1		x	x	1	1
Methyl ethyl ketone	x	x	x	x	x	x	1	x	2	x	1	1	2	2	1	1
Methyl isobutyl ketone	x	x	x	x	x	x	2	x			1	2	2	2	1	1
Methyl methacrylate	x	x	x	x	x	x	1	x	1	1			2	2		
Mineral oil	x	x	1	1	1	1	1	1	1	1	1	1	2	2	1	1
Monochlorobenzene	x	x	x	x	x	x			x	x			x	x	1	1
Naphta (light oil)	x	x	x	x	2		1		1	x	1	1			1	1
Naphtalene	x	x	x	x	2		2	x	1	2	1		x	x	1	1
Natural gas	1	1	1	1	1		1	1	1						1	1
Nickel chloride	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Nickel nitrate	1		1		2				1				1	1	1	1
Nickel sulphate	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Nitric acid 25%	1	x	1		x	x	2		1	1	x	x	x	x	1	1
Nitric acid 40%	2	x	2		x	x	2		1	2	x	x	x	x	1	1
Nitric acid 60%	x	x	x		x	x	x	x	2	2	x	x	x	x	1	1
Nitrogene	1	1	1	1	1	1	x	x	1	1					1	1
Nitrogene peroxide							1	2					2	2	1	1
Nitromethane	x	x	x	x			x	x							1	1
Octylsebacate	x	x	x	x			1	x							1	1
Oil (ASTM n°1)	x	x	1	2	1	1	1	1			1		1	1		
Oil (ASTM n°2)		x	1	x	1	2	1	1	1		1					
Oil (ASTM n°3)	x	x	1	2	1	2	1	2			1		1	1		
Oleic acid	x	x	x	x	2	x	1	2	1	1	1		x	x	1	1
Ortho-dichlorobenzene	x	x	x	x	x	x	x	x					x	x	1	1
Oxalic acid	x	x	x	x	x	x	2	x	1	1	1	1			1	1
Ozone	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Palmitic acid	x	x	x	x	1		1	1	1	1	1		1	1	1	1
Paradichlorobenzene	x	x	x	x	1		x		x	x	2	x	x	x	1	1
Paraffin oil									1	2	1					
Paraformaldehyde					x	x							1	1	1	1
Pentane	2		1						x	x			x	x	1	1
Perchloric acid	1		1		x	x			1				1	1	1	1
Perchloroethylene	x	x	x	x	2	x	x	x	x	x	1	x	x	x	1	1
Petrol	x	x	x	x	1	2	1	2	2	x	1	1	2	2	1	1
Petrol, lead-free	x	x	2	x	1	2	1	2	1	2	1	1			1	1
Phenol	x	x	x	x	x	x	x	x	2	2	2	x	1	1	1	1
Phenyldiazine	x	x	x	x			1	2	x	x					1	1
Phosphoric acid 30%	1	1	1	1	2	x	2	x	1	1			1	1	1	1
Phosphoric acid 85%	1		1		x	x			1		2	x	x	x	1	1
Picric acid (water sol'n)					x	x	1	x	1	1			1	1	1	1
Potash (concentrated)	1	x	1	x	x	x	x	x	1	1	1				1	1
Potash 10%	1	x	1	x	2	x	x	x	1	1	1	1			1	1
Potassium bicarbonate	1		1		2				1				1	1	1	1

Chemical resistance chart of hoses

Chemical resistance :

1 = Good

2 = Limited

X = Not compatible

Chemical resistance : 1 = Good 2 = Limited X = Not compatible	A		B		C		D		E		F		G		H	
	PVC				Polyurethane		Polyester		Polyethylene		Polyamide 6-12		Silicone		PTFE	
	Standard and TRICOCCLAIR®		Special chemical formula		TECHNOBEL® PU, Tube PU calibré		TECHNOBEL®		Profiline Aqua+ Profiline Aqua+Soft		Tube PA calibré		VITRYL®		Tubes PTFE	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Potassium borate	1		1		1		1	1	1			1	1	1	1	
Potassium bromine	1		1		1		1	1	1	1			1	1	1	1
Potassium carbonate (potash)	1		1		x	x	1	2	1	1	1		1	1	1	1
Potassium chlorate	1		1		2				1	1	x		2	2	1	1
Potassium chloride	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Potassium cyanide	x	x	x	x	x	x	1	2	1	1			1	1	1	1
Potassium dichromate					2				1	1			1	1	1	1
Potassium hydroxide	1	2	1	2	2	x	x	x	1	2	2		x	x	1	1
Potassium nitrate	1		1		1				1				1	1	1	1
Potassium permanganate 10%	1		1		2	x			1	1	x	x	1	1	1	1
Potassium sulfate	1	1	1	1	1	2	1	2	1	1	1	2	1	1	1	1
Potassium sulfide	1		1		1				1				x	x	1	1
Propane	x	x	x	x	1	1	1	1	1	1	1	1	x	x	1	1
Propylene							1	1							1	1
Propylene oxide	x	x	x	x			x	x					x	x	1	1
Pure acetic acid	x	x	2	x	x	x	x	x	x	x	x	x			1	1
Pyridine	x	x	x	x	x	x	x	x	2	x	1	x	2	2	1	1
Sea water	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
Seed oil					2	2	x	x	x	x			1	1	1	1
Silicone oil	x	x	1	2	1	1	1	1	1	1			1	1	1	1
Silver nitrate	1		1		1				1		1		1	1	1	1
Soda (concentrated)	1	x	1	x	x	x	x	x	1	1	2	x	2	2	1	1
Soda (diluted at 10%)	1	x	1	x	2	x	x	x	1	1	1	2	1	1	1	1
Sodium Acetate	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1
Sodium bicarbonate	1		1		2		1	x	1		1		1	1	1	1
Sodium Bisulfate	1	1	1	1	x	x	1	x	1				1	1	1	1
Sodium carbonate	1		1		1	2	1	2	1	1	1		1	1	1	1
Sodium chlorate	1		1		2		x	x	1	1	x	x	1	1	1	1
Sodium chloride	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Sodium cyanide	1	2	1	2	x	x	1	2	1	1			1	1	1	1
Sodium fluoride	1		1		2				1				2	2	1	1
Sodium fluoride aluminate 10%	1		1		2				1				2	2	1	1
Sodium hydroxide (concentrated)	1	x	1	x	x	x	x	x	1	1	2	x	2	2	1	1
Sodium hydroxide (diluted at 10%)	1	x	1	x	2	x	x	x	1	1	1	2	1	1	1	1
Sodium hypochlorite 15%	1	x	1	x	2	x	x	x	1		x	x	2	2	1	1
Sodium hypochlorite 30%	1	x	1	x	x				2		x	x	x	x	1	1
Sodium hyposulfite	1	1	1	1	2	x	x	x	1	1			1	1	1	1
Sodium nitrate	1	1	1	1	1	2	1	x	1	1			1	1	1	1
Sodium nitrite					1				1		2		1	1	1	1
Sodium perborate	1		1		x	x	1	x	1	2					1	1
Sodium peroxide	1	1	1	1	x	x	x	x					x	x	1	1
Sodium phosphate	1	1	1	1	2		1	x	1	1	1		1	1	1	1
Sodium silicate	1	1	1	1	2	x	1	2	1	1	1		1	1	1	1
Sodium sulfate	1	1	1	1	1	2	1	2	1	1			1	1	1	1
Sodium sulfide	1	1	1	1	1		1	2	1	1	1	2	1	1	1	1
Stearic acid (Fatty acid)	1	1	1	1			1	2	1	1			2	2	1	1
Styrene	x	x	x	x	2	x	x	x	2	2			2	2	1	1
Sulfamic acid 10%	1	1	1	1	1	2	1	1	1	1			1	1	1	1
Sulfur chloride	x	x	x	x	1	2	2	2	x	x			x	x	1	1
Sulfur dioxide	1		1		x	x			1	1	2		2	2	1	1
Sulfur Trioxide	1		1		2				1	x			x	x	1	1
Sulfuric acid 10 to 30%	1	1	1	1	2	x	2		1	1	x	x	2	2	1	1
Sulfuric acid 40 to 98%	x	x	x	x	x	x	x	x	1	x	x	x	x	x	1	1
Sulfuric anhydride (dry)					2	x	x	x	2	2			2	2	1	1
Sulfurous acid 10%	2		2		2				1	1			x	x	1	1
Sulfurous acid 75%	x	x	x	x	x	x			1	1			2	2	1	1
Sulfurous anhydride (dry)	1	1	1	1	2	x			1	1			1	1	1	1
Tartaric acid	1		1		1		1	2	1	1			1	1	1	1
Tetrahydrofuran	x	x	x	x	x	x	x	x	x	x	1	2	x	x	1	1
Tetraline	x	x	x	x			1	x	2	x	1	2			1	1
Thiosulphate sodium	1	1	1	1	2		1	x	1	1			1	1	1	1
Tin chloride	1	1	1	1	1	2	x	x	1	1			x	x	1	1
Toluene	x	x	x	x	x	x	2	x	1	2	1	2	2	2	1	1
Trichloroethane	x	x	x	x	x	x	x	x			2	x	x	x	1	1
Trichloroethylene	x	x	x	x	x	x	x	x	x	x	2	x	x	x	1	1
Tricresyl pholphate					2		2	x	1	1						
Trithanol amine	1	1	1	1			x	x			1				1	1
Tupentine oil	x	x	1	2	2	x	2	x	2	x	1	1	x	x	1	1
Urea 30-50%	1		1		1	x	1		1	1	2		1		1	1
Vinyl Acetate	x	x	x	x			1	2	1	1					1	1
Vinyl chloride	x	x	x	x	x	x			1	1			x	x	1	1
White spirit	x	x	x	x	1	x	x	x	x	x					1	1
Xylene	x	x	x	x	x	x	2	x	1	x	1	2	2	2	1	1
Zinc chloride	1	1	1	1	1	2	1	2	1	1	1		1	1	1	1
Zinc sulphate	1	1	1	1	1	2	1	1	1	1			1	1	1	1





INDEX PRODUCTS BY ARTICLE CODE

105

GENERAL CONDITIONS OF SALES

113

Index products by article code

2486 3460	MiniReel Pro air 10M	13	034962	Spire Acier 50 - 30M	87
2501 0000	AutoReel Pro multi 20M	12	034975	Spire Acier 150 - 20M	87
2502 0000	WaterReel PRO eau 18,5M	14	034991	Spire Acier 60 - 30M	87
5102P0000	Viton 1,25L	16	034992	Spire Acier 63 - 30M	87
5310 1240	Viton 5L	16	035075	Gaine GA2 60 - 30M	93
5311 1240	Viton 7L	16	035088	Gaine GA2 70 - 30M	93
032642	Spirabel SI 32 - 25M	77	035098	Gaine GA2 100 - 20M	93
032655	Spirabel SI 32 - 50M	77	035104	Gaine GA2 110 - 20M	93
032658	Spirabel SI 35 - 25M	77	035117	Gaine GA2 200 - 10M	93
032661	Spirabel SI 38 - 25M	77	035120	Gaine GA2 90 - 30M	93
032663	Spirabel SISE 30 - 25M	80	035133	Gaine GA2 80 - 30M	93
032668	Spirabel SISE 32 - 50M	80	035146	Gaine GA2 120 - 20M	93
032671	Spirabel SISE 40 - 50M	80	048273	Tricoflex jaune 25 - 25M	61
032679	Spirabel SISE 51 - 30M	80	048284	Tricoflex vert 25 - 25M	61
032680	Spirabel SISE 51 - 50M	80	048306	Tricoflex jaune 50 - 25M	61
032683	Spirabel SISE 60 - 50M	80	048341	Tricoflex jaune 50 - 50M	61
033207	Spirabel GMDS 25 - 30M	81	048363	Tricoflex jaune 25 - 100M	61
033233	Spirabel GMDS 51 - 30M	81	048374	Tricoflex jaune 25 - 50M	61
033243	Spirabel SNT-S 75 - 25M	78	048385	Tricoflex vert 25 - 50M	61
033254	Spirabel SNT-S 75 - 50M	78	048442	Tricoflex jaune 40 - 25M	61
033255	Spirabel GMDS 76 - 30M	81	048453	Tricoflex jaune 40 - 50M	61
033300	Spirabel SI 25 - 50M	77	048497	Tricoflex jaune 30 - 100M	61
033311	Spirabel SI 30 - 50M	77	048508	Tricoflex jaune 30 - 25M	61
033322	Spirabel SI 40 - 50M	77	048510	Tricoflex jaune 30 - 50M	61
033333	Spirabel SI 50 - 50M	77	048554	Tricoflex jaune 35 - 50M	61
033366	Spirabel SI 102 - 25M	77	048565	Tricoflex jaune 35 - 25M	61
033377	Spirabel SI 25 - 25M	77	048587	Tricoflex jaune 35 - 100M	61
033388	Spirabel SI 30 - 25M	77	048655	Tricoflex jaune 40 - 100M	61
033390	Spirabel SI 40 - 25M	77	048671	Tricoflex R 25 - 50M	62
033393	Spirabel SI 45 - 25M	77	048697	Tricoflex R 25 - 100M	62
033401	Spirabel SI 50 - 25M	77	049960	Tricocclair AL 10 x 16 - 100M	19
033491	Spirabel SI 60 - 50M	77	050084	Tricocclair AL 6,3 x 11 - 25M	19
033524	Spirabel SI 90 - 25M	77	050095	Tricocclair AL 7 x 13 - 25M	19
033538	Spirabel SI 80 - 25M	77	050106	Tricocclair AL 8 x 14 - 25M	19
033873	Spirabel SNT-S 60 - 50M	78	050117	Tricocclair AL 10 x 16 - 25M	19
033906	Spirabel SNT-S 90 - 25M	78	050128	Tricocclair AL 12 x 19 - 25M	19
033915	Spirabel SNT-S 80 - 25M	78	050130	Tricocclair AL 15 x 23 - 25M	19
033920	Spirabel GMDS 102 - 30M	81	050141	Tricocclair AL 20 x 28 - 25M	19
033928	Spirabel SNT-S 100 - 25M	78	050152	Tricocclair AL 25 x 36 - 25M	19
033931	Spirabel SNT-S 110 - 25M	78	050163	Tricocclair AL 30 x 41 - 25M	19
033944	Spirabel SNT-S 120 - 25M	78	050174	Tricocclair AL 4 x 8 - 50M	19
034193	Spirabel GMDS 63 - 30M	81	050196	Tricocclair AL 8 x 14 - 50M	19
034380	Spirabel GMDS 32 - 30M	81	050207	Tricocclair AL 10 x 16 - 50M	19
034383	Spirabel GMDS 38 - 30M	81	050218	Tricocclair AL 12 x 19 - 50M	19
034743	Spire Acier 80 - 20M	87	050253	Tricocclair AL 30 x 41 - 50M	19
034756	Spire Acier 90 - 20M	87	050264	Tricocclair AL 13 x 20 - 50M	19
034769	Spire Acier 76 - 30M	87	050276	Tricocclair AL 19 x 27 - 50M	19
034799	Spire Acier 16 - 30M	87	050277	Tricocclair AL 19 x 27 - 100M	19
034827	Spire Acier 70 - 30M	87	050289	Tricocclair AL 19 x 27 - 25M	19
034869	Spire Acier 110 - 20M	87	050310	Tricocclair AL 15 x 23 - 50M	19
034872	Spire Acier 120 - 20M	87	050365	Tricocclair AL 40 x 52 - 25M	19
034902	Spire Acier 20 - 30M	87	050376	Tricocclair AL 50 x 64 - 25M	19
034916	Spire Acier 25 - 30M	87	050400	Tricocclair AL 6 x 12 - 50M	19
034921	Spire Acier 30 - 30M	87	050455	Tricocclair AL 25 x 34 - 50M	19
034934	Spire Acier 35 - 30M	87	050466	Tricocclair AL 25 x 34 - 25M	19
034947	Spire Acier 40 - 30M	87	050488	Tricocclair AL 32 x 42 - 50M	19
034959	Spire Acier 45 - 30M	87	050490	Tricocclair AL 32 x 42 - 25M	19

Index products by article code

050695	Tricocclair AL 13 x 20 - 25M	19	070865	Tube PU calibré noir 5,5 x 8 - 25M	34
050843	Tricofuel 25 x 32,5 - 25M	44	070936	Tube PU calibré nat 8 x 12 - 25M	34
050856	Tricofuel 25 x 32,5 - 50M	44	070949	Tube PU calibré bleu 8 x 12 - 25M	34
051162	Tricofuel 8 x 14 - 25M	44	071023	Tube PU calibré bleu 5,5 x 8 - 600M	34
051175	Tricofuel 8 x 14 - 50M	44	071107	Tube PU calibré nat 6 x 8 - 25M	34
051204	Tricofuel 12 x 19 - 25M	44	071110	Tube PU calibré nat 6 x 8 - 100M	34
051217	Tricofuel 12 x 19 - 50M	44	071123	Tube PU calibré bleu 6 x 8 - 25M	34
051246	Tricofuel 10 x 16 - 25M	44	071136	Tube PU calibré bleu 6 x 8 - 100M	34
051259	Tricofuel 10 x 16 - 50M	44	071144	Tube PU calibré noir 6 x 8 - 25M	34
051377	PropaTress 6,3 x 12 - 25M	36	071155	Tube PU calibré noir 6 x 8 - 100M	34
051388	PropaTress 8 x 14 - 25M	36	071590	Tube PU calibré rouge 4 x 6 - 25M	34
051390	PropaTress 9 x 16 - 25M	36	071629	Tube PU calibré rouge 5,5 x 8 - 25M	34
051546	Tricoflex jaune 19 - 50M	61	072000	Tubclair AL 10 x 14 - 25M	23
051570	Tricoflex vert 19 - 50M	61	072011	Tubclair AL 10 x 14 - 50M	23
052274	Tricofuel 15 x 23 - 25M	44	072022	Tubclair AL 12 x 16 - 25M	23
052680	Tricofuel 20 x 28 - 25M	44	072033	Tubclair AL 12 x 16 - 50M	23
052693	Tricofuel 20 x 28 - 50M	44	072044	Tubclair AL 15 x 19 - 25M	23
052883	Tricofuel 30 x 39 - 25M	44	072066	Tubclair AL 18 x 23 - 25M	23
054145	Tricocclair AL 25 x 36 - 50M	19	072077	Tubclair AL 18 x 23 - 50M	23
054156	Tricocclair AL 38 x 48 - 50M	19	072088	Tubclair AL 20 x 25 - 25M	23
054270	Tricocclair AL 20 x 28 - 50M	19	072090	Tubclair AL 20 x 25 - 50M	23
054281	Tricocclair AL 6 x 12 - 25M	19	072101	Tubclair AL 25 x 32 - 25M	23
054426	Tricoflex jaune 15 - 100M	61	072112	Tubclair AL 25 x 32 - 50M	23
054437	Tricoflex jaune 19 - 100M	61	072123	Tubclair AL 30 x 38 - 25M	23
054933	Tricocclair AL 38 x 48 - 25M	19	072134	Tubclair AL 30 x 38 - 50M	23
054955	Tricocclair AL 9 x 15 - 50M	19	072145	Tubclair AL 35 x 43 - 25M	23
054966	Tricocclair AL 9 x 15 - 25M	19	072167	Tubclair AL 40 x 49 - 25M	23
059100	Pistolet métal eau chaude AL	58	072180	Tubclair AL 50 x 60 - 25M	23
059107	Pistolet PP eau chaude AL	58	072191	Tubclair AL 50 x 60 - 50M	23
059504	Dévidoir mural	15	072202	Tubclair AL 60 x 70 - 25M	23
059505	Dévidoir 4x4	15	072354	Tube PU calibré bleu 7,5 x 10 - 100M	34
059506	Dévidoir Vénus	15	072412	Tube PU calibré nat 7,5 x 10 - 25M	34
061031	Rubvyl rouge 19 - 40M	64	072413	Tube PU calibré bleu 7,5 x 10 - 25M	34
063150	Tricoflex Yachting 12,5 - 15M	63	072425	Tube PU calibré noir 7,5 x 10 - 25M	34
063176	Tricoflex Yachting 15 - 25M	63	072490	Tube PA calibré nat 2,5 x 4 - 30M	33
063205	Tricoflex Yachting 15 - 80M	63	072494	Tube PA calibré nat 2,7 x 4 - 25M	33
063218	Tricoflex Yachting 19 - 25M	63	072516	Tube PA calibré nat 4 x 6 - 25M	33
063263	Tricoflex Yachting 19 - 50M	63	072517	Tube PA calibré nat 4 x 6 - 30M	33
065430	Tubclair AL 15 x 20 - 25M	23	072538	Tube PA calibré nat 6 x 8 - 25M	33
065441	Tubclair AL 15 x 20 - 50M	23	072539	Tube PA calibré nat 6 x 8 - 30M	33
069141	Cristal 4 x 7 - 50M	24	072551	Tube PA calibré nat 8 x 10 - 25M	33
069167	Cristal 5 x 8 - 50M	24	072552	Tube PA calibré nat 8 x 10 - 30M	33
069286	Cristal 6 x 9 - 50M	24	072562	Tube PA calibré nat 10 x 12 - 25M	33
069290	Cristal 7 x 10 - 50M	24	072584	Tube PA calibré nat 12 x 14 - 25M	33
069326	Cristal 8 x 10 - 50M	24	072595	Tube PA calibré nat 13 x 16 - 25M	33
069328	Cristal 8 x 11 - 50M	24	072606	Tube PA calibré nat 2 x 4 - 50M	33
069330	Cristal 10 x 13 - 50M	24	072617	Tube PA calibré nat 4 x 6 - 50M	33
069340	Cristal 12 x 15 - 50M	24	072630	Tube PA calibré nat 6 x 8 - 50M	33
069360	Cristal 12 x 16 - 50M	24	072663	Tube PA calibré nat 10 x 12 - 50M	33
070717	Tube PU calibré bleu 2,5 x 4 - 25M	34	072718	Tube PA calibré nat 4 x 6 - 100M	33
070762	Tube PU calibré nat 4 x 6 - 25M	34	072728	Tube PA calibré nat 5,5 x 8 - 30M	33
070775	Tube PU calibré nat 4 x 6 - 100M	34	072731	Tube PA calibré nat 6 x 8 - 100M	33
070788	Tube PU calibré bleu 4 x 6 - 25M	34	072753	Tube PA calibré nat 8 x 10 - 100M	33
070791	Tube PU calibré bleu 4 x 6 - 100M	34	072764	Tube PA calibré nat 10 x 12 - 100M	33
070804	Tube PU calibré noir 4 x 6 - 25M	34	072786	Tube PA calibré nat 12 x 14 - 100M	33
070823	Tube PU calibré nat 5,5 x 8 - 25M	34	072810	Tube PA calibré noir 4 x 6 - 100M	33
070849	Tube PU calibré bleu 5,5 x 8 - 25M	34	072821	Tube PA calibré noir 6 x 8 - 100M	33

Index products by article code

072832	Tube PA calibré noir 8 x 10 - 100M	33	096620	Tubclair AL 32 x 40 - 25M	23
072854	Tube PA calibré noir 6 x 8 - 25M	33	096633	Tubclair AL 32 x 42 - 25M	23
072855	Tube PA calibré noir 6 x 8 - 30M	33	096646	Tubclair AL 35 x 42 - 25M	23
072865	Tube PA calibré noir 8 x 10 - 25M	33	096662	Tubclair AL 38 x 48 - 25M	23
072876	Tube PA calibré noir 4 x 6 - 25M	33	096681	Tubclair AL 40 x 48 - 25M	23
072933	Tube PA calibré rouge 4 x 6 - 25M	33	096694	Tubclair AL 40 x 50 - 25M	23
072945	Tube PA calibré rouge 6 x 8 - 30M	33	100050	Airsoft 6,3 x 11 - 25M	26
072954	Tube PA calibré rouge 8 x 10 - 30M	33	100051	Airsoft 6,3 x 11 - 50M	26
072955	Tube PA calibré rouge 8 x 10 - 25M	33	100052	Airsoft 8 x 13 - 25M	26
073001	Tube PA calibré bleu 4 x 6 - 100M	33	100053	Airsoft 8 x 13 - 50M	26
073012	Tube PA calibré bleu 6 x 8 - 100M	33	100054	Airsoft 9 x 14,5 - 25M	26
073034	Tube PA calibré bleu 4 x 6 - 25M	33	100055	Airsoft 9 x 14,5 - 50M	26
073035	Tube PA calibré bleu 4 x 6 - 30M	33	100056	Airsoft 10 x 15,5 - 25M	26
073055	Tube PA calibré bleu 8 x 10 - 30M	33	100057	Airsoft 10 x 15,5 - 50M	26
073056	Tube PA calibré bleu 8 x 10 - 25M	33	100058	Airsoft 12,7 x 19 - 25M	26
073078	Tube PA calibré bleu 6 x 8 - 25M	33	100059	Airsoft 12,5 x 19 - 50M	26
073195	Tube PA calibré nat 4 x 6 - 1000M	32	100060	Airsoft 16 x 23 - 25M	26
073208	Tube PA calibré nat 6 x 8 - 600M	32	100061	Airsoft 16 x 23 - 50M	26
074542	Tube PA calibré noir 2,7 x 4 - 100M	33	100062	Airsoft 19 x 26,5 - 25M	26
074961	Tube PA calibré noir 10 x 12 - 100M	33	100063	Airsoft 19 x 26,5 - 50M	26
075035	Tube PA calibré rouge 2,7 x 4 - 25M	33	100064	Airsoft 25 x 33,5 - 25M	26
075251	Tube PA calibré bleu 10 x 12 - 25M	33	100065	Airsoft 25 x 33,5 - 50M	26
075831	Tube PA calibré jaune 2,7 x 4 - 25M	33	100236	Thermoclean AL20 12x20 - 25M	56
092843	Nobelair AS-R 6 x 12 - 50M	30	100237	Thermoclean AL20 12x20 - 100M	56
092856	Nobelair AS-R 8 x 14 - 25M	30	100268	Thermoclean AL20 16x24 - 25M	56
092869	Nobelair AS-R 8 x 14 - 50M	30	100284	Thermoclean AL20 19x28 - 25M	56
092872	Nobelair AS-R 10 x 16 - 25M	30	100758	Super Thermoclean 40 12 - 25M	57
092885	Nobelair AS-R 10 x 16 - 50M	30	100761	Super Thermoclean 40 12 - 50M	57
092901	Nobelair AS-R 12,7 x 19 - 50M	30	100774	Super Thermoclean 40 12 - 100M	57
092927	Nobelair AS-R 19 x 28 - 50M	30	102408	Super Tress-Nobel 10 x 19 - 50M	41
093651	Nobelair AS-R vert 6 x 12 - 50M	30	102440	Super Tress-Nobel 12 x 22 - 50M	41
093653	Nobelair AS-R vert 10 x 16 - 50M	30	102453	Super Tress-Nobel 12 x 22 - 100M	41
093910	Cristal 9 x 12 - 50M	24	102527	Super Tress-Nobel 19 x 30,5 - 50M	41
094493	Tubclair AL 5 x 8 - 50M	22	103572	Tricocclair AL 15 x 23 - 100M	19
096130	Tubclair AL 10 x 16 - 50M	23	105118	Rubvyl rouge 13 - 40M	64
096143	Tubclair AL 12 x 15 - 50M	23	105150	Rubvyl rouge 25 - 40M	64
096169	Tubclair AL 12 x 18 - 50M	23	105234	Rubvyl noir 19 - 50M	64
096185	Tubclair AL 13 x 17 - 50M	23	105250	Rubvyl noir 25 - 50M	64
096198	Tubclair AL 13 x 19 - 50M	23	110000	Tricoflex Performance 12,5 - 25M	60
096201	Tubclair AL 14 x 18 - 50M	23	110001	Tricoflex Performance 12,5 - 50M	60
096243	Tubclair AL 15 x 21 - 50M	23	110002	Tricoflex Performance 15 - 25M	60
096269	Tubclair AL 16 x 20 - 50M	23	110003	Tricoflex Performance 15 - 50M	60
096272	Tubclair AL 16 x 21 - 50M	23	110004	Tricoflex Performance 19 - 25M	60
096285	Tubclair AL 16 x 22 - 50M	23	110005	Tricoflex Performance 19 - 50M	60
096301	Tubclair AL 18 x 22 - 50M	23	110006	Tricoflex Performance 25 - 25M	60
096327	Tubclair AL 19 x 24 - 50M	23	110007	Tricoflex Performance 25 - 50M	60
096330	Tubclair AL 19 x 25 - 50M	23	110050	Irriflex 12,5 - 25M	65
096343	Tubclair AL 19 x 26 - 50M	23	110051	Irriflex 12,5 - 50M	65
096356	Tubclair AL 19 x 27 - 50M	23	110054	Irriflex 19 - 25M	65
096362	Tubclair AL 20 x 24 - 50M	23	110055	Irriflex 19 - 50M	65
096375	Tubclair AL 20 x 26 - 50M	23	110056	Irriflex 25 - 25M	65
096388	Tubclair AL 22 x 28 - 50M	23	110057	Irriflex 25 - 50M	65
096420	Tubclair AL 25 x 31 - 50M	23	116365	Primabel jaune 12,5 - 25M	66
096433	Tubclair AL 25 x 33 - 50M	23	116378	Primabel jaune 12,5 - 50M	66
096462	Tubclair AL 27 x 33 - 50M	23	116381	Primabel jaune 15 - 25M	66
096488	Tubclair AL 30 x 37 - 50M	23	116394	Primabel jaune 15 - 50M	66
096562	Tubclair AL 25 x 31 - 25M	23	116400	Primabel jaune 19 - 25M	66

Index products by article code

116542	Tricoflex R 19 - 100M	62	137413	Spirabel LD 50 - 30M	76
116568	Tricoflex R 19 - 50M	62	137415	Spirabel LD 50 - 50M	76
116861	Tricoflex jaune 15 - 25M	61	140005	Tricoflat 35 - 25M	69
116874	Tricoflex jaune 15 - 50M	61	140016	Tricoflat 35 - 50M	69
116887	Tricoflex jaune 19 - 25M	61	140027	Tricoflat 40 - 25M	69
117016	Tricoflex jaune 12,5 - 100M	61	140038	Tricoflat 40 - 50M	69
117045	Tricoflex vert 15 - 25M	61	140041	Tricoflat 40 - 100M	69
117051	Tricoflex vert 15 - 50M	61	140054	Tricoflat 45 - 25M	69
117135	Tricoflex jaune 12,5 - 25M	61	140067	Tricoflat 45 - 50M	69
117151	Tricoflex jaune 12,5 - 50M	61	140070	Tricoflat 50 - 25M	69
117757	Primabel vert 19 - 50M	66	140083	Tricoflat 50 - 50M	69
117799	Primabel vert 15 - 50M	66	140096	Tricoflat 50 - 100M	69
117802	Primabel vert 15 - 25M	66	140109	Tricoflat 55 - 25M	69
117828	Primabel vert 19 - 25M	66	140112	Tricoflat 55 - 50M	69
125450	EN5359 air noir+blanc 6,3 - 50M	31	140125	Tricoflat 63 - 25M	69
125451	EN5359 O2 blanc 6,3 - 50M	31	140141	Tricoflat 63 - 100M	69
125454	EN5359 N2O bleu 6,3 - 50M	31	140154	Tricoflat 70 - 25M	69
125455	EN5359 vide jaune 6,3 - 50M	31	140167	Tricoflat 70 - 50M	69
125675	TCF bleu 8 x 13 - 25M	20	140183	Tricoflat 75 - 25M	69
125688	TCF rouge 10 x 15 - 25M	20	140196	Tricoflat 75 - 50M	69
125691	TCF bleu 10 x 15 - 25M	20	140201	Tricoflat 80 - 100M	69
125704	TCF rouge 12,5 x 18 - 25M	20	140209	Tricoflat 75 - 100M	69
125717	TCF bleu 12,5 x 18 - 25M	20	140212	Tricoflat 90 - 25M	69
125746	T1947 1-A-2 rouge 25,5 - 20M	72	140225	Tricoflat 90 - 50M	69
125759	T1947 2-A-2 rouge 25,5 - 20M	72	140241	Tricoflat 100 - 25M	69
125865	T1947 1-A-2 rouge 25,5 - 40M	72	140254	Tricoflat 100 - 50M	69
126142	Technobel 32 x 44 - 50M	46	140267	Tricoflat 100 - 100M	69
132839	Primabel vert 12,5 - 25M	66	140283	Tricoflat 150 - 50M	69
134376	Spirabel LD 40 - 25M	76	140325	Super Tricoflat 45 - 25M	69
134405	Spirabel LD 63 - 50M	76	140357	Super Tricoflat 50 - 25M	69
134421	Spirabel LD 75 - 25M	76	140373	Super Tricoflat 50 - 100M	69
134489	Spirabel LD 102 - 25M	76	140431	Super Tricoflat 70 - 25M	69
135460	Spire Acier 12 - 30M	87	140457	Super Tricoflat 75 - 25M	69
135476	Spire Acier 14 - 30M	87	140473	Super Tricoflat 75 - 100M	69
135511	Spire Acier 18 - 30M	87	140515	Super Tricoflat 100 - 25M	69
135749	Technobel 6 x 11 - 50M	46	140544	Super Tricoflat 150 - 25M	69
135794	Technobel 9 x 15 - 50M	46	140602	Tricoflat 25 - 25M	69
135800	Technobel 10 x 16 - 25M	46	140615	Tricoflat 25 - 50M	69
135826	Technobel 12,7 x 19,5 - 25M	46	140631	Tricoflat 30 - 25M	69
135842	Technobel 16 x 23,5 - 25M	46	140644	Tricoflat 30 - 50M	69
135855	Technobel 16 x 23,5 - 50M	46	140689	Tricoflat 200 - 50M	69
135868	Technobel 19 x 27,5 - 25M	46	141040	Cristal 4 x 6 - 100M	24
135884	Technobel 25 x 34,5 - 25M	46	141266	Cristal 8 x 12 - 50M	24
135913	Technobel 30 x 40,5 - 50M	46	141369	Cristal 10 x 14 - 50M	24
135984	Technobel 50 x 64 - 25M	46	141372	Cristal 10 x 16 - 50M	24
136925	Spirabel SNT-A 40 - 50M	79	141501	Cristal 16 x 20 - 50M	24
136941	Spirabel SNT-A 50 - 50M	79	141505	Cristal 16 x 21 - 50M	24
137128	Spirabel SNT-A 40 - 25M	79	141510	Cristal 19 x 24 - 50M	24
137144	Spirabel SNT-A 50 - 25M	79	141633	Cristal 20 x 26 - 50M	24
137157	Spirabel SNT-A 60 - 25M	79	141662	Cristal 25 x 31 - 25M	24
137215	Spirabel MDSF AL 76 - 30M	82	141720	Cristal 30 x 37 - 25M	24
137244	Spirabel MDSF AL 102 - 30M	82	141817	Cristal 38 x 48 - 25M	24
137315	Spirabel LD 20 - 50M	76	141919	Cristal 15 x 19 - 50M	24
137331	Spirabel LD 25 - 50M	76	142916	Tricoflex vert 19 - 25M	61
137357	Spirabel LD 32 - 50M	76	144672	T 694 EN694 A2 noir 33 - 30M	73
137371	Spirabel LD 38 - 30M	76	145336	T 694 EN694 A2 noir 19 - 30M	73
137373	Spirabel LD 38 - 50M	76	145352	T 694 EN694 A2 rouge 25 - 30M	73

Index products by article code

145378	T 694 EN694 A2 noir 25 - 30M	73	148914	Spirabel GMDS 152 - 30M	81
145430	T 694 EN694 A2 rouge 19 - 30M	73	148939	Spi Vendanges SF rouge 40 - 25M	83
145571	Thermoclean 100 13 x 22 - 20M	54	148940	Spi Vendanges SF jaune 40 - 25M	83
145584	Thermoclean 100 13 x 22 - 40M	54	148941	Spi Vendanges SF transl 40 - 25M	83
145597	Thermoclean 100 25 x 34 - 20M	54	148942	Spi Vendanges SF rouge 40 - 50M	83
145655	Thermoclean 100 16 x 25 - 20M	54	148955	Spi Vendanges SF rouge 50 - 25M	83
145668	Thermoclean 100 16 x 25 - 40M	54	148957	Spi Vendanges SF transl 50 - 25M	83
145671	Thermoclean 100 19 x 28 - 20M	54	148968	Spi Vendanges SF rouge 50 - 50M	83
145684	Thermoclean 100 19 x 28 - 40M	54	148969	Spi Vendanges SF jaune 50 - 50M	83
145697	Thermoclean 100 25 x 34 - 40M	54	148971	Spi Vendanges SF rouge 60 - 25M	83
147263	Tubclair AL 2 x 4 - 100M	22	148997	Spi Vendanges SF rouge 63 - 25M	83
147289	Tubclair AL 3 x 5 - 50M	22	149013	Spi Vendanges SF rouge 70 - 25M	83
147305	Tubclair AL 3 x 6 - 50M	22	149015	Spi Vendanges SF transl 70 - 25M	83
147318	Tubclair AL 4 x 6 - 50M	22	149039	Spi Vendanges SF rouge 80 - 25M	83
147321	Tubclair AL 4 x 6 - 100M	22	149042	Spi Vendanges SF rouge 100 - 25M	83
147334	Tubclair AL 4 x 7 - 50M	22	149055	Spi Vendanges SF rouge 120 - 25M	83
147347	Tubclair AL 4 x 8 - 50M	22	149621	TCF 6,3 x 11 - 25M	20
147363	Tubclair AL 5 x 8 - 25M	22	149622	TCF 6,3 x 11 - 50M	20
147376	Tubclair AL 5 x 9 - 100M	22	149635	TCF 8 x 13 - 25M	20
147389	Tubclair AL 6 x 8 - 50M	22	149648	TCF 8 x 13 - 50M	20
147392	Tubclair AL 6 x 9 - 50M	22	149651	TCF 10 x 15 - 25M	20
147405	Tubclair AL 6 x 10 - 50M	22	149664	TCF 10 x 15 - 50M	20
147418	Tubclair AL 6 x 12 - 50M	22	149677	TCF 12,5 x 18 - 25M	20
147421	Tubclair AL 7 x 10 - 50M	22	149680	TCF 12,5 x 18 - 50M	20
147453	Tubclair AL 8 x 11 - 25M	22	149693	TCF 16 x 22 - 25M	20
147466	Tubclair AL 8 x 11 - 50M	22	149706	TCF 16 x 22 - 50M	20
147479	Tubclair AL 8 x 11 - 100M	22	149712	TCF 19 x 26 - 25M	20
147495	Tubclair AL 8 x 12 - 50M	22	149725	TCF 19 x 26 - 50M	20
147511	Tubclair AL 9 x 12 - 50M	22	149738	TCF 25 x 33 - 25M	20
147524	Tubclair AL 9 x 13 - 50M	22	149741	TCF 25 x 33 - 50M	20
147537	Tubclair AL 10 x 13 - 50M	22	149754	TCF 30 x 40 - 25M	20
147566	Tubclair AL 5 x 7 - 50M	22	149767	TCF 30 x 40 - 50M	20
147624	Nobelair AS 7 x 14 - 20M	27	149770	TCF 32 x 41 - 25M	20
147640	Nobelair AS 8 x 15 - 20M	27	149783	TCF 32 x 41 - 50M	20
147655	Nobelair AS 8 x 15 - 40M	27	149796	TCF 38 x 47 - 25M	20
147666	Nobelair AS 9 x 16 - 20M	27	149809	TCF 38 x 47 - 50M	20
147679	Nobelair AS 9 x 16 - 40M	27	149812	TCF 40 x 50 - 25M	20
147682	Nobelair AS 10 x 17,5 - 20M	27	149825	TCF 50 x 60 - 25M	20
147695	Nobelair AS 10 x 17,5 - 40M	27	150009	Spirabel PUA1 40 - 10M	95
147708	Nobelair AS 12 x 20 - 20M	27	150012	Spirabel PUA1 50 - 10M	95
147711	Nobelair AS 12 x 20 - 40M	27	150025	Spirabel PUA1 60 - 10M	95
147753	SNA Soft 6,3 x 11 - 50M	28	150031	Spirabel PUA1 80 - 10M	95
147766	SNA Soft 8 x 13 - 50M	28	150044	Spirabel PUA1 100 - 10M	95
147772	SNA Soft 9 x 14,5 - 50M	28	150057	Spirabel PUA1 120 - 10M	95
147785	SNA Soft 10 x 15,5 - 50M	28	150086	Spirabel PUA1 150 - 10M	95
147885	Technobel 8 x 14 - 50M	46	150099	Spirabel PUA1 160 - 10M	95
147898	Technobel 10 x 16 - 50M	46	150115	Spirabel PUA1 200 - 10M	95
147901	Technobel 19 x 27,5 - 50M	46	150128	Spirabel PUA1 30 - 10M	95
147914	Technobel 25 x 34,5 - 50M	46	150157	Spirabel PUA1 38 - 10M	95
147930	Technobel 12,7 x 19,5 - 50M	46	150160	Spirabel PUA1 45 - 10M	95
147956	SNA Soft 12,7 x 19 - 25M	28	150186	Spirabel PUA1 63 - 10M	95
148162	SNA Soft 12,7 x 19 - 50M	28	150199	Spirabel PUA1 70 - 10M	95
148362	SNA Soft 6,3 x 11 - 25M	28	150202	Spirabel PUA1 76 - 10M	95
148375	SNA Soft 8 x 13 - 25M	28	150215	Spirabel PUA1 90 - 10M	95
148388	SNA Soft 9 x 14,5 - 25M	28	150228	Spirabel PUA1 110 - 10M	95
148391	SNA Soft 10 x 15,5 - 25M	28	150302	Spirabel PUA2 40 - 10M	89
148913	Spirabel SNT-S 151 - 25M	78	150315	Spirabel PUA2 50 - 10M	89

Index products by article code

150328	Spirabel PUA2 60 - 10M	89	166938	Spirabel MDSE 80 - 50M	84
150344	Spirabel PUA2 100 - 10M	89	166943	Spirabel MDSE 102 - 30M	84
150708	Gaine GA2 20 - 50M	93	166950	Spirabel MDSE 120 - 30M	84
150711	Gaine GA2 25 - 50M	93	166951	Spirabel MDSE 127 - 20M	84
150737	Gaine GA2 35 - 50M	93	166953	Spirabel MDSE 151 - 20M	84
150740	Gaine GA2 40 - 50M	93	166960	Spi MDSE Performance 76 - 30M	85
150753	Gaine GA2 50 - 30M	93	166961	Spi MDSE Performance 80 - 30M	85
150766	Gaine GA2 140 - 20M	93	166962	Spi MDSE Performance 80 - 50M	85
150779	Gaine GA2 150 - 20M	93	166963	Spi MDSE Performance 102 - 30M	85
150782	Gaine GA2 160 - 10M	93	166964	Spi MDSE Performance 90 - 30M	85
150795	Gaine GA2 38 - 50M	93	166965	Spi MDSE Performance 120 - 30M	85
150811	Gaine GA2 125 - 20M	93	166967	Spi MDSE Performance 151 - 20M	85
150824	Gaine GA2 180 - 10M	93	167124	Spirabel SNT-S 20 - 25M	78
150837	Gaine GA2 250 - 10M	93	167137	Spirabel SNT-S 20 - 50M	78
150853	Gaine GA2 75 - 30M	93	167140	Spirabel SNT-S 25 - 25M	78
152845	Technobel PU vert 8 x 14 - 50M	45	167153	Spirabel SNT-S 25 - 50M	78
152864	Technobel PU vert 12,7 x 19 - 50M	45	167166	Spirabel SNT-S 30 - 25M	78
153067	Technobel PU 8 x 14 - 25M	45	167172	Spirabel SNT-S 30 - 50M	78
153070	Technobel PU 10 x 16 - 25M	45	167185	Spirabel SNT-S 32 - 25M	78
153083	Technobel PU 12,7 x 19 - 25M	45	167198	Spirabel SNT-S 32 - 50M	78
153096	Technobel PU 16 x 23 - 25M	45	167201	Spirabel SNT-S 35 - 25M	78
153109	Technobel PU 19 x 26 - 25M	45	167214	Spirabel SNT-S 35 - 50M	78
153112	Technobel PU 25 x 33 - 25M	45	167227	Spirabel SNT-S 38 - 25M	78
153113	Technobel PU 25 x 33 - 50M	45	167230	Spirabel SNT-S 38 - 50M	78
153115	Technobel PU 32 x 41 - 25M	45	167243	Spirabel SNT-S 40 - 25M	78
153154	Technobel PU 6 x 11 - 50M	45	167256	Spirabel SNT-S 40 - 50M	78
153167	Technobel PU 9 x 15 - 50M	45	167269	Spirabel SNT-S 45 - 25M	78
153183	Technobel PU 19 x 26 - 50M	45	167272	Spirabel SNT-S 45 - 50M	78
153805	Primabel jaune 15 - 15M	66	167285	Spirabel SNT-S 50 - 25M	78
154859	Tress-Nobel 20B 16 x 23 - 50M	40	167298	Spirabel SNT-S 50 - 50M	78
155124	Profiline Aqua Extra Soft 19 x 26 - 50M	53	167301	Spirabel SNT-S 55 - 25M	78
155240	Profiline Aqua Plus 10 x 15 - 50M	51	167327	Spirabel SNT-S 63 - 25M	78
155249	Profiline Aqua Plus 13 x 20 - 50M	51	167330	Spirabel SNT-S 63 - 50M	78
155256	Profiline Aqua Plus 19 x 27 - 50M	51	167617	Gaine GA3 12 - 30M	94
155260	Profiline Aqua + Soft 13 x 19 - 50M	52	167620	Gaine GA3 20 - 30M	94
155270	Profiline Aqua Plus 25 x 34,5 - 50M	51	167633	Gaine GA3 25 - 30M	94
155275	Profiline Aqua + Soft 19 x 26 - 50M	52	167646	Gaine GA3 32 - 30M	94
155280	Profiline Aqua + Soft 25 x 33,5 - 50M	52	167658	Gaine GA3 40 - 30M	94
158059	SNA Soft 16 x 23 - 25M	28	167659	Gaine GA3 40 - 25M	94
158062	SNA Soft 16 x 23 - 50M	28	167662	Spirabel SNT-S 60 - 25M	78
158075	SNA Soft 19 x 26,5 - 25M	28	167675	Spirabel SNT-S 70 - 25M	78
158088	SNA Soft 19 x 26,5 - 50M	28	167881	Soudage ISO 3821 rouge 6,3 x 12 - 20M	38
158091	SNA Soft 25 x 33,5 - 25M	28	167894	Soudage ISO 3821 bleu 6,3 x 12 - 20M	38
158104	SNA Soft 25 x 33,5 - 50M	28	167923	Soudage ISO 3821 rouge 10 x 17 - 20M	38
158110	Tress-Nobel 20B 8 x 13 - 50M	40	167936	Soudage ISO 3821 bleu 10 x 17 - 20M	38
158123	Tress-Nobel 20B 10 x 15,5 - 50M	40	167965	Soudage ISO 3821 double 6 x 13 - 20M	38
158136	Tress-Nobel 20B 12,7 x 19 - 50M	40	167981	Soudage ISO 3821 double 10 x 17 - 20M	38
158149	Tress-Nobel 20B 19 x 26,5 - 50M	40	167994	Soudage ISO 3821 double 10 x 17 - 40M	38
158178	Tress-Nobel 20B 25 x 33,5 - 50M	40	168426	GPL ISO 3821 8 x 15 - 20M	37
166551	Airtop 20 x 29 - 20M	35	168442	GPL ISO 3821 10 x 17 - 20M	37
166557	Airtop 16 x 23 - 40M	35	168729	Spirabel Balneo 32 - 25M	88
166559	Airtop 25 x 34 - 40M	35	168745	Spirabel Balneo 40 - 25M	88
166564	Airtop 20 x 29 - 40M	35	168774	Spirabel Balneo 50 - 25M	88
166920	Spirabel MDSE 40 - 30M	84	168780	Spirabel Balneo 50 - 50M	88
166925	Spirabel MDSE 51 - 30M	84	168793	Spirabel Balneo 63 - 25M	88
166927	Spirabel MDSE 60 - 30M	84	169022	Vitryl 3 x 7 - 25M	50
166934	Spirabel MDSE 76 - 30M	84	169035	Vitryl 4 x 8 - 25M	50

Index products by article code

169080	Vitryl 6 x 10 - 25M	50	174722	Windflex 600 PU AL 102 - 10M	98
169093	Vitryl 6 x 12 - 25M	50	174723	Windflex 600 PU AL 120 - 10M	98
169112	Vitryl 8 x 14 - 25M	50	174724	Windflex 600 PU AL 152 - 10M	98
169125	Vitryl 10 x 16 - 25M	50	174725	Windflex 600 PU AL 160 - 10M	98
169154	Vitryl 12 x 16 - 25M	50	174726	Windflex 600 PU AL 180 - 10M	98
169283	Vitryl 3 x 6 - 25M	50	174727	Windflex 600 PU AL 203 - 10M	98
169309	Vitryl 4 x 7 - 25M	50	174728	Windflex 600 PU AL 254 - 10M	98
169409	Vitryl 7 x 11 - 25M	50	174729	Windflex 600 PU AL 305 - 10M	98
169412	Tube PTFE 2 x 4 - 25M	47	174730	Windflex 600 PU AL 127 - 10M	98
169425	Vitryl 8 x 11 - 25M	50	174731	Windflex 600 PU AL 70 - 10M	98
169457	Tube PTFE 4 x 6 - 25M	47	174733	Windflex 400 PU 51 - 10M	96
169473	Tube PTFE 4 x 6 - 100M	47	174734	Windflex 400 PU 60 - 10M	96
169486	Tube PTFE 6 x 8 - 25M	47	174735	Windflex 400 PU 76 - 10M	96
169488	Tube PTFE 6 x 8 - 50M	47	174736	Windflex 400 PU 80 - 10M	96
169499	Tube PTFE 6 x 8 - 100M	47	174737	Windflex 400 PU 102 - 10M	96
169502	Tube PTFE 8 x 10 - 25M	47	174738	Windflex 400 PU 120 - 10M	96
169515	Tube PTFE 8 x 10 - 100M	47	174739	Windflex 400 PU 127 - 10M	96
169528	Tube PTFE 10 x 12 - 25M	47	174740	Windflex 400 PU 140 - 10M	96
169531	Tube PTFE 10 x 12 - 100M	47	174741	Windflex 400 PU 152 - 10M	96
169544	Tube PTFE 5 x 8 - 25M	47	174742	Windflex 400 PU 160 - 10M	96
174672	Windflex 400 AS 203 - 10M	97	174743	Windflex 400 PU 180 - 10M	96
174673	Windflex 400 AS 254 - 10M	97	174744	Windflex 400 PU 203 - 10M	96
174674	Windflex 400 AS 300 - 10M	97	174745	Windflex 400 PU 254 - 10M	96
174675	Windflex 400 AS 350 - 10M	97	174746	Windflex 400 PU 300 - 10M	96
174676	Windflex 400 AS 400 - 5M	97	174747	Windflex 400 PU 70 - 10M	96
174677	Windflex 400 AS 500 - 5M	97	174748	Windflex 400 PU 90 - 10M	96
174678	Windflex 400 AS 51 - 10M	97	174749	Windflex 400 PU 350 - 10M	96
174679	Windflex 400 AS 60 - 10M	97	174750	Windflex 400 PU 400 - 45M	96
174680	Windflex 400 AS 70 - 10M	97	174751	Windflex 400 PU 500 - 5M	96
174681	Windflex 400 AS 76 - 10M	97	174760	Windflex 600 PU AL 80 - 10M	98
174682	Windflex 400 AS 80 - 10M	97	174761	Windflex 600 PU AL 90 - 10M	98
174683	Windflex 400 AS 90 - 10M	97	174762	Windflex 600 PU AL 140 - 10M	98
174684	Windflex 400 AS 102 - 10M	97	174763	Windflex 600 PU AL 350 - 10M	98
174685	Windflex 400 AS 120 - 10M	97	174764	Windflex 600 PU AL 400 - 10M	98
174686	Windflex 400 AS 127 - 10M	97	174765	Windflex 600 PU AL 500 - 10M	98
174687	Windflex 400 AS 140 - 10M	97	174767	Windflex 805 PU AL 60 - 10M	101
174688	Windflex 400 AS 152 - 10M	97	174772	Windflex 805 PU 30 - 10M	100
174689	Windflex 400 AS 160 - 10M	97	174773	Windflex 805 PU 70 - 10M	100
174690	Windflex 400 AS 180 - 10M	97	174774	Windflex 805 PU 90 - 10M	100
174691	Windflex 400 PU 400 - 5M	96	174775	Windflex 805 PU 350 - 10M	100
174703	Windflex 805 PU 51 - 10M	100	174776	Windflex 805 PU 400 - 5M	100
174704	Windflex 805 PU 60 - 10M	100	174777	Windflex 805 PU 500 - 5M	100
174705	Windflex 805 PU 76 - 10M	100	174779	Windflex 805 PU AL 76 - 10M	101
174706	Windflex 805 PU 80 - 10M	100	174780	Windflex 805 PU AL 80 - 10M	101
174707	Windflex 805 PU 102 - 10M	100	174781	Windflex 805 PU AL 51 - 10M	101
174708	Windflex 805 PU 120 - 10M	100	174782	Windflex 805 PU AL 90 - 10M	101
174709	Windflex 805 PU 127 - 10M	100	174783	Windflex 1500 PU 45 - 10M	103
174710	Windflex 805 PU 140 - 10M	100	174785	Windflex 1500 PU 60 - 10M	103
174711	Windflex 805 PU 152 - 10M	100	174786	Windflex 1500 PU 70 - 10M	103
174712	Windflex 805 PU 160 - 10M	100	174787	Windflex 1500 PU 76 - 10M	103
174715	Windflex 805 PU 180 - 10M	100	174788	Windflex 1500 PU 80 - 10M	103
174716	Windflex 805 PU 203 - 10M	100	174789	Windflex 1500 PU 90 - 10M	103
174717	Windflex 805 PU 254 - 10M	100	174790	Windflex 1500 PU 40 - 10M	103
174718	Windflex 805 PU 305 - 10M	100	174791	Windflex 1500 PU 50 - 10M	103
174719	Windflex 600 PU AL 60 - 10M	98	174792	Windflex 1500 PU 100 - 10M	103
174720	Windflex 600 PU AL 40 - 10M	98	174793	Windflex 805 PU AL 102 - 10M	101
174721	Windflex 600 PU AL 51 - 10M	98	174794	Windflex 805 PU AL 120 - 10M	101

Index products by article code

174795	Windflex 805 PU AL 127 - 10M	101	190813	Gaine GA1 25 - 30M	92
174796	Windflex 805 PU AL 140 - 10M	101	190826	Gaine GA1 30 - 30M	92
174798	Windflex 805 PU AL 152 - 10M	101	190839	Gaine GA1 35 - 30M	92
174799	Windflex 805 PU AL 160 - 10M	101	190842	Gaine GA1 40 - 30M	92
174801	Windflex 805 PU AL 180 - 10M	101	190855	Gaine GA1 50 - 30M	92
174802	Windflex 805 PU AL 203 - 10M	101	190913	Gaine GA1 38 - 30M	92
174803	Windflex 805 PU AL 254 - 10M	101	190926	Gaine GA1 63 - 30M	92
174804	Windflex 805 PU AL 300 - 10M	101	191664	Spirabel SI 20 - 50M	77
174812	Windflex 805 PU AL 110 - 10M	101	192689	Tress-Nobel bleu 25 x 35 - 25M	40
174813	Windflex 805 PU AL 32 - 10M	101	192692	Tress-Nobel bleu 25 x 35 - 50M	40
174814	Windflex 805 PU AL 38 - 10M	101	192724	Tress-Nobel noir 8 x 14,5 - 100M	40
174816	Windflex 805 PU AL 350 - 10M	101	192753	Tress-Nobel noir 10 x 17 - 100M	40
174817	Windflex 805 PU AL 400 - 5M	101	192908	Tress-Nobel noir 16 x 24 - 50M	40
174818	Windflex 805 PU AL 500 - 5M	101	194255	Primabel jaune 19 - 50M	66
174824	Windflex 805 EH 180	99	194268	Primabel jaune 25 - 25M	66
174825	Windflex 805 EH 200	99	194271	Primabel jaune 25 - 50M	66
174833	Windflex 400 PU 500 - 5M	96	194297	Primabel jaune 30 - 50M	66
174835	Windflex 1308 PU 150 - 10M	102	195821	Tress-Nobel noir 12 x 20 - 50M	40
174836	Windflex 1308 PU 200 - 10M	102	196037	Tress-Nobel noir 19 x 28 - 50M	40
174837	Windflex 1308 PU 180 - 10M	102	198022	Super Nobelair 6,3 x 11 - 50M	29
174840	Windflex 1308 PU 40 - 10M	102	198051	Super Nobelair 7 x 12 - 25M	29
174841	Windflex 1308 PU 50 - 10M	102	198093	Super Nobelair 8 x 13 - 25M	29
174843	Windflex 1308 PU 60 - 10M	102	198106	Super Nobelair 8 x 13 - 50M	29
174844	Windflex 1308 PU 70 - 10M	102	198119	Super Nobelair 8 x 13 - 100M	29
174845	Windflex 1308 PU 76 - 10M	102	198148	Super Nobelair 9 x 14,5 - 50M	29
174846	Windflex 1308 PU 80 - 10M	102	198177	Super Nobelair 10 x 15,5 - 25M	29
174847	Windflex 1308 PU 90 - 10M	102	198180	Super Nobelair 10 x 15,5 - 50M	29
174848	Windflex 1308 PU 102 - 10M	102	198212	Super Nobelair 12,7 x 19 - 25M	29
174849	Windflex 1308 PU 110 - 10M	102	198225	Super Nobelair 12,7 x 19 - 50M	29
174850	Windflex 1308 PU 120 - 10M	102	198238	Super Nobelair 12,7 x 19 - 100M	29
174851	Windflex 1308 PU 140 - 10M	102	198254	Super Nobelair 16 x 23 - 25M	29
174852	Windflex 1308 PU 130 - 10M	102	198267	Super Nobelair 16 x 23 - 50M	29
174853	Windflex 1308 PU 160 - 10M	102	198296	Super Nobelair 19 x 26,5 - 25M	29
176009	Spirabel MDSO 80 - 50M	86	198309	Super Nobelair 19 x 26,5 - 50M	29
176010	Spirabel MDSO 25 - 30M	86	198312	Super Nobelair 19 x 26,5 - 100M	29
176012	Spirabel MDSO 32 - 30M	86	198338	Super Nobelair 25 x 33,5 - 25M	29
176014	Spirabel MDSO 38 - 30M	86	198341	Super Nobelair 25 x 33,5 - 50M	29
176017	Spirabel MDSO 51 - 10M	86	198438	Tress-Nobel bleu 8 x 14,5 - 25M	40
176018	Spirabel MDSO 51 - 30M	86	198467	Tress-Nobel bleu 9 x 16 - 50M	40
176020	Spirabel MDSO 63 - 30M	86	198496	Tress-Nobel bleu 10 x 17 - 25M	40
176023	Spirabel MDSO 76 - 30M	86	198509	Tress-Nobel bleu 10 x 17 - 50M	40
176026	Spirabel MDSO 102 - 30M	86	198512	Tress-Nobel bleu 10 x 17 - 100M	40
176073	Spirabel MDSF AL 63 - 30M	82	198531	Tress-Nobel bleu 12 x 20 - 25M	40
176202	Spirabel MDSF AL 151 - 20M	82	198544	Tress-Nobel bleu 12 x 20 - 50M	40
189782	Vitryl 3 x 5 - 25M	50	198557	Tress-Nobel bleu 12 x 20 - 100M	40
189795	Vitryl 4 x 6 - 25M	50	198599	Tress-Nobel bleu 16 x 24 - 25M	40
189801	Vitryl 5 x 8 - 25M	50	198602	Tress-Nobel bleu 16 x 24 - 50M	40
189814	Vitryl 6 x 9 - 25M	50	198631	Tress-Nobel bleu 19 x 28 - 25M	40
189830	Vitryl 8 x 12 - 25M	50	198644	Tress-Nobel bleu 19 x 28 - 50M	40
189843	Vitryl 10 x 14 - 25M	50	198660	Tress-Nobel bleu 8 x 14,5 - 50M	40
189856	Vitryl 12 x 17 - 25M	50	198673	Tress-Nobel bleu 8 x 14,5 - 100M	40
189869	Vitryl 15 x 21 - 25M	50	198699	Tress-Nobel bleu 6,3 x 12,5 - 50M	40
189885	Vitryl 20 x 27 - 25M	50	198815	Tress-Nobel noir 25 x 35 - 50M	40
190710	Spire Acier 102 - 20M	87	Z 71023	Support mural Minireel	13
190785	Spire Acier 32 - 30M	87	Z 71028	Support mural Autoreel et Waterreel Pro	12
190798	Spire Acier 38 - 30M	87			

Conditions générales de vente

2. LIVRAISON ET TRANSFERT DE RISQUES

2.1. LIVRAISON

Le Fournisseur livre les Produits au Client à l'adresse indiquée sur la commande. Le Client est responsable de l'installation et de l'entretien des Produits.

2.2. TRANSFERT DE RISQUES

Le transfert de propriété des Produits s'effectue au moment de la livraison. Le Client est responsable des risques de perte ou de détérioration des Produits à partir de ce moment.

3.1. ACCEPTATION

Le Client accepte les Conditions générales de vente et les Produits livrés par le Fournisseur.

3.2. RECEPTION

Le Client doit vérifier la conformité des Produits livrés avec la commande. Toute réclamation doit être faite dans un délai de 15 jours.

4.1. PRIX

Les prix sont indiqués dans le catalogue. Ils sont exprimés en euros hors taxes (HT).

4.2. PRIX

Les prix sont indiqués dans le catalogue. Ils sont exprimés en euros hors taxes (HT).

5. RESERVE DE PROPRIETE

Le transfert de propriété des Produits ne sera effectué qu'après paiement de la totalité du prix par le Client.

Le Client, en principal et accessoire, pourra exercer les droits qu'il dévient au titre de cette clause pour la totalité de ses Produits que dévient le Client et ce pour l'une quelconque de ses créances.

Le Client doit assurer la conservation des Produits livrés pendant la durée de la réserve de propriété.

Le Client s'engage à :

- assurer, à ses frais, le remplacement de la chose livrée et non payée et détruite ou en payer intégralement le prix ;

- faire figurer clairement dans ses écritures comptables les Produits livrés et non payés.

En cas de non-paiement, le Fournisseur se réserve le droit de suspendre toutes les livraisons en cours et/ou de refuser d'honorer de futures commandes et ce sans que le Client ne puisse réclamer aucune indemnité.

Outre l'intérêt de retard et l'indemnité forfaitaire susmentionnées, en cas de défaut de paiement à l'échéance, le Fournisseur se réserve le droit d'exiger du Client l'application d'une indemnité égale à 15% de la somme totale impayée, à titre de dommages-intérêts, sans avoir à justifier de l'importance et de la nature de son préjudice.

Par ailleurs, en cas de retard de paiement, le Fournisseur se réserve le droit de suspendre toutes les livraisons en cours et/ou de refuser d'honorer de futures commandes et ce sans que le Client ne puisse réclamer aucune indemnité.

En cas de défaut de paiement, le Fournisseur se réserve le droit d'exiger du Client l'application d'une indemnité égale à 15% de la somme totale impayée, à titre de dommages-intérêts, sans avoir à justifier de l'importance et de la nature de son préjudice.

Par ailleurs, en cas de retard de paiement, le Fournisseur se réserve le droit de suspendre toutes les livraisons en cours et/ou de refuser d'honorer de futures commandes et ce sans que le Client ne puisse réclamer aucune indemnité.

En cas de défaut de paiement, le Fournisseur se réserve le droit d'exiger du Client l'application d'une indemnité égale à 15% de la somme totale impayée, à titre de dommages-intérêts, sans avoir à justifier de l'importance et de la nature de son préjudice.

Par ailleurs, en cas de retard de paiement, le Fournisseur se réserve le droit de suspendre toutes les livraisons en cours et/ou de refuser d'honorer de futures commandes et ce sans que le Client ne puisse réclamer aucune indemnité.

En cas de défaut de paiement, le Fournisseur se réserve le droit d'exiger du Client l'application d'une indemnité égale à 15% de la somme totale impayée, à titre de dommages-intérêts, sans avoir à justifier de l'importance et de la nature de son préjudice.

Par ailleurs, en cas de retard de paiement, le Fournisseur se réserve le droit de suspendre toutes les livraisons en cours et/ou de refuser d'honorer de futures commandes et ce sans que le Client ne puisse réclamer aucune indemnité.

En cas de défaut de paiement, le Fournisseur se réserve le droit d'exiger du Client l'application d'une indemnité égale à 15% de la somme totale impayée, à titre de dommages-intérêts, sans avoir à justifier de l'importance et de la nature de son préjudice.

Par ailleurs, en cas de retard de paiement, le Fournisseur se réserve le droit de suspendre toutes les livraisons en cours et/ou de refuser d'honorer de futures commandes et ce sans que le Client ne puisse réclamer aucune indemnité.

TRICOFLEX

Conditions générales de vente

Les Parties ont convenu des conditions générales de vente ci-dessous, qui régiront la relation commerciale entre elles.

1 - OBJET

Le Fournisseur s'engage à fournir au Client les Produits décrits dans le catalogue ou les spécifications techniques fournies par le Fournisseur.

2 - DÉLAI DE LIVRAISON

Le Fournisseur s'engage à livrer les Produits au Client dans le délai convenu, sous réserve de la disponibilité des matières premières et des capacités de production.

3 - MODALITÉS DE LIVRAISON

Le Fournisseur livrera les Produits au Client par la méthode de transport la plus adaptée à la nature des Produits.

4 - MODALITÉS DE PAIEMENT

Le Client devra régler les factures émises par le Fournisseur dans le délai de 30 jours à compter de la date d'émission.

5 - GARANTIE

Le Fournisseur garantit la conformité des Produits aux spécifications techniques fournies par le Fournisseur.

6 - RESPONSABILITÉ

Le Fournisseur ne pourra être tenu responsable des dommages directs ou indirects résultant de l'utilisation des Produits.

7 - CONFIDENTIALITÉ

Les Parties s'engagent à ne divulguer à qui que ce soit les informations confidentielles échangées entre elles.

8 - FORCE MAJEURE

En cas de force majeure, le Fournisseur ne pourra être tenu responsable de son retard ou de son défaut de livraison.

9 - RETOUR DE PRODUITS

Le Fournisseur accepte le retour des Produits non utilisés, sous réserve de leur état et de la fourniture d'un bon de retour.

10 - RESPONSABILITÉ

Le Fournisseur ne pourra être tenu responsable des dommages directs ou indirects résultant de l'utilisation des Produits.

11 - CONFIDENTIALITÉ

Les Parties s'engagent à ne divulguer à qui que ce soit les informations confidentielles échangées entre elles.

12 - FORCE MAJEURE

En cas de force majeure, le Fournisseur ne pourra être tenu responsable de son retard ou de son défaut de livraison.

13 - DROIT APPLICABLE

Le droit applicable à la relation commerciale entre les Parties est le droit français.

14 - CONTESTATIONS

Les contestations relatives à la relation commerciale entre les Parties seront portées devant le Tribunal de Commerce de Paris.

15 - DROIT APPLICABLE

Le droit applicable à la relation commerciale entre les Parties est le droit français.

General conditions of sales

DEFINITIONS

- "**Client**" means any individual or company who/which orders Products from the Supplier in the course of its professional activity.

- "**Contract**" means any the Order and these STC.

- "**Order**" means any order resulting in one or more deliveries, issued by the Client.

- "**Party**" means the Client and/or the Supplier individually.

- "**Parties**" means the Supplier and the Client collectively.

- "**Products**" means any product, material and / or equipment, and / or component and / or spare parts and / or accessories manufactured and / or marketed by the Supplier.

- "**Supplier**" means TRICOFLEX Company.

1 - SCOPE

These Sales Terms and Conditions (STC) constitute the sole basis of the commercial negotiation with the Client. These STC include these General Terms and Conditions of Sale and the Annexes which are expressly approved and accepted by the Client, who declares and recognizes to have a perfect knowledge of. Any Order of Products implies the unconditional acceptance by the Client and its full and entire adhesion to these STC. The acceptance of the Supplier's STC shall automatically imply the non-application of any other General Conditions of Purchase or Sale derogating therefrom, except with the express written agreement of the Parties. These STC cancel and replace any other prior documents with the Client.

The fact that the Supplier does not avail itself at a given moment of any of the clauses hereof may not constitute a waiver of these clauses. The Supplier may modify the present STC at any time by giving one (1) month's notice.

2 - ORDERS

2.1 - ORDERS ACCEPTANCE

Any Order becomes definitive and only binds the Supplier after acceptance and written confirmation sent to the Client by the Supplier.

Any Order placed by telephone must be confirmed by the Client to the Supplier in writing.

2.3 - CANCELLATION AND REFUSAL OF AN ORDER

Any cancellation of an Order requested by the Client can only be taken into account if it has been received in writing by the Supplier.

In the event of an Order's cancellation or suspension by the Client after acceptance of this one by the Supplier, the Supplier shall invoice the Client for an indemnity equal to 15% of the amount of the Order

In the event that a Client places an Order with the Supplier, without having paid for the previous Order (s), the Supplier may refuse to honor the Order and to deliver the concerned Products. The Client will not be able to claim any compensation for any reason whatsoever.

3 - DELIVERY

3.1 - TERMS OF DELIVERY

Deliveries are made within the time specified in the Order's acceptance.

Delivery times are indicative and depend on the Supplier's supply and transport possibilities.

The Supplier endeavors to respect the delivery time indicated on the acceptance of the Order.

Exceedances of delivery times may in no case give rise to damages, cancellation of Orders in progress, or non-payment of invoices due.

3.2 - Reception

It is the Client's responsibility to check the Products upon receipt.

In the event of damage or partial loss, the Client must make immediately all the necessary reservations and confirm them, in accordance with Article L. 133-3 of the Commercial Code, within three (3) days of the receipt of the Products, including public holidays, by extrajudicial act or registered letter with acknowledgment of receipt to the carrier.

A copy shall be sent to the Supplier at the same time.

It is the Client's responsibility to provide all justifications to prove the reality of the defects found.

The Supplier should have the opportunity to proceed to the detection of these defects in order to be able to remedy them, if they are its fault.

Reception without any reservation or not meeting the above conditions covers any apparent defects and / or any loss. The Products will be deemed accepted by the Client.

3.3 - Risk of loss

The Products are sold and approved in the Supplier's factories, regardless of the shipping method, carriage due, advanced or free shipping.

The Products are travelling at the risk and peril of the Client. The Client undertakes to insure, at its own expenses, the Products against the risks of loss and deterioration by taking an insurance for the benefit of the Supplier.

It is the Client's responsibility to:

- check, at the time of delivery by the carrier, that the Products have not suffered of any damage during transport,

- safeguard its rights vis-à-vis the carrier in accordance with the legal provisions in force and within the required time and,

- exercise, if necessary, directly his recourse against the carrier.

The Client has sole quality to make reservations with the carrier in the event of damage, loss or delay in delivery, in the forms and time prescribed by the Code of Commerce, in accordance with Article 3.2 hereof.

3.4 - Return costs

After checking, in the event of discovery of a defect, non-compliant Product or loss, by the Supplier, the Client may only request the replacement of non-compliant Products and / or the supplement to fill the gaps at the expense of the Supplier.

The Client will not be able to claim any compensation or ask for the sale or the Agreement's resolution. Only the carrier chosen and / or accepted by the Supplier is authorized to return the concerned Products. In all other cases, any return of Products must be subject to a written agreement by the Supplier. The costs and risks of return will be borne by the Client. Any return made without the express consent of the Supplier will not give rise to any refund or credit.

3.5 - Suspension of deliveries

In the event of non-payment in full of an invoice due, the Supplier may suspend any delivery in progress and / or future.

4 - PRICE - TERMS OF PAYMENT

4.1 - PRICE

Rates may be revised at any time and will be communicated one (1) month in advance to the Client.

The prices, expressed before tax and in euro or in foreign currency, are those in force at the time of the Order.

4.2 - TERMS OF PAYMENT

The invoice is issued at the time of shipment of the Products.

All invoices are payable to the accounting department of Vitry-le-François. The payment terms are those shown on the Order Acknowledgment, by default the invoices are payable 45 days end of the month.

No discount for early payment will be granted.

Any late payment will entail by right and without any formal notice being necessary delay penalties equal to the interest rate applied by the European Central Bank (ECB) to its most recent refinancing operation plus 10 percentage points as well as the payment of a lump sum compensation for recovery costs of 40 euros per invoice. When the recovery costs incurred exceed the amount of this lump sum indemnity, the Supplier reserves the right to request additional compensation, upon justification

In addition to the aforementioned late payment interest and lump sum payment, in the event of late payment, the Supplier reserves the right to require the Client to pay compensation equal to 15% of the total amount outstanding, as damages. This clause will apply without the Supplier having to justify the importance and nature of its damage.

In the event of late payment, the Supplier reserves the right to suspend all deliveries in progress and / or to refuse to honor future Orders without the Client being able to claim any compensation.

5 - RETENTION OF TITLE

The transfer of ownership of the Products will only be made after payment of the full price by the Client, in principal and accessories.

The Supplier may exercise the rights it holds under this clause for all of its Products held by the Client for any of its claims.

The Client must ensure the conservation of the Products delivered during the retention period.

The Client agrees to:

General conditions of sales

- insure, at its own expenses, the replacement of the delivered and unpaid and destroyed Product or to pay the price immediately;
- show separately in its accounting records, the nature and value of the Product which has been the subject of a reservation of title clause;
- not to pledge the delivered and unpaid Products, nor to transfer the property as guarantee;
- inform the Supplier immediately of the seizure, requisition or confiscation of the delivered and unpaid Product and of the sale, transfer or pledge of its business to a third party;
- immediately notify the Supplier in the event of resale of the Products, to enable the Supplier to exercise his right of claim on the price towards the End User.

In the event of total or partial non-payment of the price at the due date for any reason whatsoever, the Supplier may demand, by right and without formality, the return of the Product, at the expense and risk of the Client.

6 - QUANTITIES

The Supplier reserves a margin of plus or minus 10% on the quantity ordered, except for standard articles. Prices are established for continuous manufacture of the quantity indicated by the proposal. Claims for quantities delivered may only be considered if presented to the Supplier within two (2) business days after receipt of the shipment.

7 - WARRANTY

The Supplier's liability is strictly limited to the replacement, pure and simple and number for number, of the Products that the Supplier has recognized as non-compliant and which have been returned free of charge to the Supplier's factories in their original condition, within fifteen (15) days from the arrival of the Products at the Client's premises, without the Supplier having to bear any other damages whatsoever.

According to custom, it is the Client's responsibility to check the compatibility of the articles (permeability, solubility, organoleptic characteristics, etc.) with regard to food products, with which they are called upon to come into contact and to verify the good preservation of these ones.

Any defects and deteriorations resulting from abnormal storage and / or storage conditions at the Client's premises will not be eligible for the warranty due by the Supplier.

No liability of the Supplier can be incurred for any damage suffered by the Client, in case the Products sold are stored, by the Client and / or its subcontractors or service providers, under abnormal conditions or incompatible with their nature and Supplier's instructions. The Supplier does not cover damage and wear resulting from special adaptation or mounting, abnormal or not, of its Products except if it has been carried out under its supervision.

In any case, the Supplier's warranty is limited to the replacement of the Products found to be defective for a reason for which the Supplier would be expressly and adversely responsible.

8 - FORCE MAJEURE

There is Force majeure where an event beyond the control of the debtor, which could not be reasonably have been foreseen at the time of the conclusion of the contract and whose effects could not be avoided by appropriate measures, and which prevents performance of his obligation by the debtor.

Are notably assimilated to cases of force majeure or fortuitous discharging the Supplier of its obligation: the strikes of all or part of the staff of the Supplier or its habitual carriers, the fire, the flood, the war, thus that any other cause of supply breakdown that is not attributable to the Supplier.

In such circumstances, the Supplier will notify the Client in writing within seventy-two (72) hours of the date of occurrence of the events.

If the impediment is temporary performance of the obligation is suspended by right and without compensation. If the event lasts beyond thirty (30) calendar's day period from its manifestation, the present Agreement may be automatically terminated by the most diligent Party, without either Party being eligible for damages.

9 - RETURN OF PRODUCTS

The complaints concerning the delivered Products will be receivable by the Supplier only if they are presented by registered letter with acknowledgment of receipt within a period of fifteen (15) days from the arrival of the Products at the Client.

In the event of dispute over Products delivered by the Supplier, it is agreed that the Supplier will have ten (10) days after the receipt of the Client's complaint to proceed, eventually on the spot, to the necessary findings and examinations. No return of Product used or processed in any way whatsoever, will be accepted by the Supplier. When the Supplier accepts returns of Products, it may only consent to a Credit if such Products have reached the Supplier in good condition, without having been used and after verification and acceptance by the Supplier in its stores. The Supplier reserves the right to apply a minimum discount for administrative costs, excluding any costs of control and repackaging.

10 - RESPONSIBILITY

The Supplier shall under no circumstances be held liable, for any reason whatsoever, for any direct or indirect damage resulting from the defect or non-conformity of a Supplier's Product.

11 - CONFIDENTIALITY

The Parties undertake not to disclose to anyone any information provided by the other Party, directly or indirectly in writing or orally, including any document, prototype, technical specification or plan, know-how, any material, formula ...

This confidentiality obligation must be respected by each Party, their employees and their potential subcontractors for the duration of the business relationship and the two (2) years following the end of the relationship. The obligation of confidentiality does not apply to information that is or will become public domain, that is already known before placing the Order, that is disclosed or used by either Party with the prior written consent of the other Party, that is lawfully received from

a third party, that has to be disclosed to a judicial or administrative authority.

12 - ANTI-CORRUPTION

In carrying-out the supply, the Supplier hereby undertakes to strictly comply with applicable laws prohibiting the bribery of public officials and private persons, influence peddling, money laundering. The Supplier undertakes to put in place and implement all necessary measures to prevent corruption. The Client accepts to comply with all applicable anticorruption laws. The Client shall not especially: (a) use any money or other things of value paid by the Client for purposes that violate Anti-corruption Laws, and (b) directly or indirectly, offer, promise, give, solicit or accept monies or other things of value to or from a public agent, government-owned or government-controlled commercial entities, a political party or any other person, individual or entity, with the objective to or retain business or secure any improper commercial or financial advantage or to influence any act or decision.

13 - DATA PROTECTION

For the sole purpose of the agreement, the Supplier can collect and proceed the personal data of the Client. As such, the Supplier undertakes to ensure that the processing is carried out in accordance with the law.

The Supplier shall not exploit and use the personal data for its own or for the account of a third party, unless instructed otherwise by the Client. The Supplier shall keep the collected data throughout the duration of the contract and for five (5) years after its termination. At any time, the Client shall have the right to access, rectify, delete, oppose, data portability, restrict processing and define the personal data proceeding post mortem by e-mail at the following address: m.bradmetz@tricoflex.com

The Client may also lodge a complaint with the «Commission nationale de l'informatique et des libertés»: 3 Place de Fontenoy, 75007 Paris (www.cnil.fr)

14 - DISPUTES

Any dispute relating to the application and / or interpretation of the prices, the Supplier's Terms and Conditions, the commercial cooperation agreements to which the Supplier is party, will no longer be admissible after the establishment of the balance of the conditions of the concerned year and, failing that, beyond a period of 12 months, following the end of the year in which these documents were in force.

15 - GOVERNING LAW AND JURISDICTION

These STC and any dispute or claim arising out of or in connection with it or its subject matter or formation shall be governed by and construed in accordance with the laws of France.

Any dispute arising from the interpretation or performance of these STC will be, in case no settlement can be reached through consultation of the exclusive competence of the Commercial Court of Paris (France).

16 - APPENDICES

These APPENDICES are an integral part of these Terms and Conditions:

APPENDIX 1- Unit Price Schedule (or Price List)

“A LA CARTE” HOSES ORDER FORM
















To be returned to your local Sales Manager (downloadable file on our website www.tricoflex.com)

To be returned to your local Sales Manager (downloadable file on our website www.tricoflex.com)

Company informations

Company		Phone	
Contact		Email	
Address			
Postal code / Town		Country	

Hose selection

Type of hose (check one box per feature)	Colour of hose	
Tricoclair® AL	<input type="checkbox"/>	
TCF	<input type="checkbox"/>	
Super Nobelair®	<input type="checkbox"/>	
Super Nobelair® Soft	<input type="checkbox"/>	
Technobel®	<input type="checkbox"/>	
Technobel® PU	<input type="checkbox"/>	
Tress-Nobel® 40 bar	<input type="checkbox"/>	
	<div>Transparent</div> <div>  Crystal <input type="checkbox"/></div> <div>  Blue <input type="checkbox"/></div> <div>  Red <input type="checkbox"/></div> <div>  Green <input type="checkbox"/></div>	<div>Opaque</div> <div>  Black <input type="checkbox"/></div> <div>  Dark grey <input type="checkbox"/></div> <div>  Light grey <input type="checkbox"/></div> <div>  White <input type="checkbox"/></div> <div>  Blue <input type="checkbox"/></div> <div>  Green <input type="checkbox"/></div> <div>  Red <input type="checkbox"/></div> <div>  Beige <input type="checkbox"/></div> <div>  Orange <input type="checkbox"/></div> <div>  Yellow <input type="checkbox"/></div>
 (Inner diameter)	<input type="text"/>	mm
Length per coil/reel	<input type="text"/>	meters (15<meters<100)

[illegible]

Quantity and price

Total quantity (length x coil/reel)	
Agreed price/m	
Date of demand	

Provided that the order form is fully and correctly filled in, please allow four to five weeks for delivery from the date the email is sent.

“A LA CARTE” HOSES

We manufacture customize hoses. Follow the 4 stages below and use the form printed on the other side of this page to place your order, or download it online at www.tricoflex.com.

1 Specify the hose type depending on intended use.

Transported fluid	Adapted hoses
Water	Tricocclair® AL, TCF, Super Nobelair® Soft, Super Nobelair®, Technobel® PU, Tress-Nobel® 40, Technobel®
Compressed air	Tricocclair® AL, TCF, Super Nobelair® Soft, Super Nobelair®, Tress-Nobel® 40, Technobel®
Oils	Technobel® PU, Technobel®
Food	Tricocclair® AL, TCF

Hose	Page	Hose	Page
Tricocclair® AL	18	Technobel® PU	45
TCF	20	Tress-Nobel® 40	40
Super Nobelair® Soft	28	Technobel®	46
Super Nobelair®	29		

2 Set the size that suits you in the technical data table for the selected hose.

Set the size that suits you in the technical data table for the selected hose. The table below shows the minimum order quantities depending on the chosen internal diameter.

Diamètre intérieur (mm)	4 & 5	6,3	6	7	8 & 9	10	12,7	12 & 13	15 & 16	19	20	25
Minimum de commande (m)	7 500	7 000	5 500	5 000	4 500	4 000	3 500	2 500	2 000	1 700	1 500	1 000

3 Color

Choose from the following colors for your hose :

black	dark grey	light grey	white	blue	green	red	beige	orange	yellow
-------	-----------	------------	-------	------	-------	-----	-------	--------	--------

Translucent hoses can be tinted blue, red, or green while retaining their transparency.

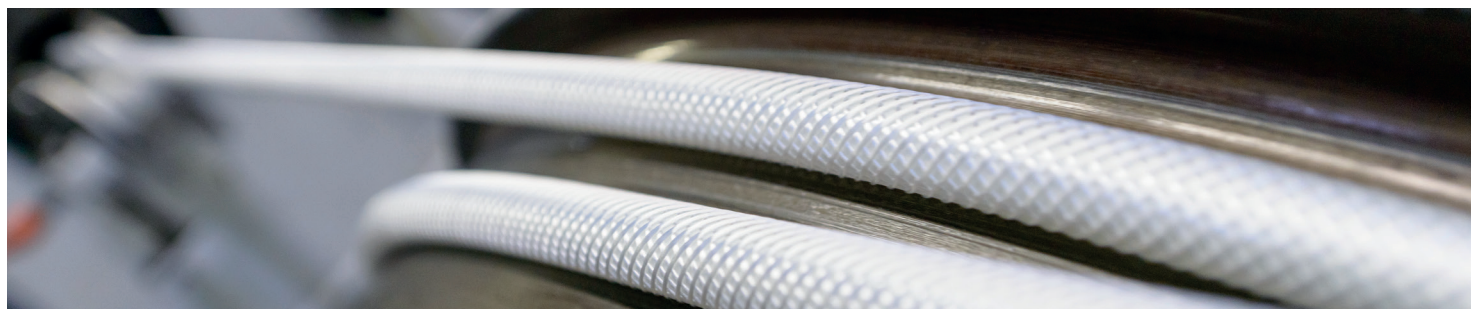
Non-contractual colors



4 Marking. Specify the information you would like us to print on your hose. (100 characters maximum, including spaces and pictograms).

Fill out the purchase order on the other side of this page (or print it from the website).
For more information, please contact our sales manager responsible of your geographical area.

WHO ARE WE ?



European leader

With a strong experience that dates back more than 60 years, TRICOFLEX is among Europe's top leaders in the production of flexible hoses. It is in the Champagne region of France, in Vitry-le-Francois, that TRICOFLEX designs and produces the hoses for today and tomorrow, in a modern factory with a capacity of more than 100 000 km per year. TRICOFLEX today has 200 people that are very passionate about our work, and always at the service of our customers. TRICOFLEX is a part of the EXEL INDUSTRIES group.

Quality

Quality is part of our DNA at TRICOFLEX, be it the quality of our products or the quality of our service. With an ISO 9001 certification since 1999, TRICOFLEX seeks to continuously perfect our processes in order to answer the needs of a variety of markets.

From the selection of materials to delivery, passing through formulations in the compounding unit and production itself, the company as a whole is striving to achieve the highest standards of customer satisfaction.



Modern production

Each year, we produce more than twice the circumference of the Earth from our 14 production lines. Added to this impressive production capacity, is the expertise that demonstrates an advanced technology:

Formulation of PVC compounds with exclusive performances, such as anti-static, cold flexibility, oil and grease resistance, high thermal resistance, chemical resistance, multi-layer co-extrusion, high resilience reinforcements for minimum deformation under pressure.

Large and performing range

More than 60 hose types and 1000 items are offered as standard and available from stock. Knitted hoses, braided hoses, spiral hoses and non-reinforced hoses: TRICOFLEX offers not just the major classics, but above all we offer the exclusive specialty hoses:

TRICOFLEX and TRICOFLEX PERFORMANCE

Highly flexible water supply hoses

SUPER NOBELAIR SOFT and AIRSOFT PERFORMANCE

Extra soft and flexible hoses for all compressed air applications

TRICOCLAIR

Multipurpose hoses according to the latest European regulations

TECHNOBEL

Multi-layer hoses for transfer of chemicals

THERMOCLEAN

Hot water hoses for industrial cleaning and food processing up to 100°C

PROFILINE AQUA PLUS

Potable water hoses according to KTW and DVGW-W270

SPIRABEL

High flow suction and delivery spiral hoses

Desire to innovate

We consider it our duty to keep our customer relations our top priority, and to further develop new hose solutions to offer to our customers. We constantly search for new materials, we conceive new hose structures, and we invest in new and better performing machinery.

We aim to strengthen the partnership with our customers by always offering advanced technology and excellent service - this is our philosophy.

The background of the entire page is an abstract composition of vibrant, wavy lines in shades of yellow, orange, blue, and green. Interspersed among these lines are numerous small, translucent bubbles, giving the overall effect a sense of fluid motion and depth.

TRICOFLEX

17 avenue Jean Juif - CS 70015 - 51301 VITRY-LE-FRANÇOIS CEDEX - www.tricoflex.com
S.A.S. au Capital de 1 909 416 € - R.C.S. Châlons-en-Champagne 380 333 427
SIREN 380 333 427 - FR 60 380 333 427 - APE 2221 Z