

Chemical resistance chart of hoses

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
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
Engine oil											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							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	1	2	2	x	1	x	1	1	1	2	x	x	1	1

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	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
Hydraulic oil												1				
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
Hydroquinone	1		1				1	1	1	1					1	1
Isobutyl alcohol					2	x	1	2	2	2					1	1
Isooctane	x	x	1	2	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	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	x	x	1	2					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
Phenylhydrazine	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

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	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 bicarbonate	1		1		2				1				1	1	1	1
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	1	2	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
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	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						
Triethanol 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