

TECHNICAL INFORMATION

Table of hose material chemical resistance

The table below is a guide to the initial selection of hose and sealing material suitable for particular operating conditions. The characteristics given in the table apply to the resistance at +20°C. Please contact Sales or Technical Department of TUBES INTERNATIONAL® to match the hose material correctly with the application.

symbol	material	characteristics
EPDM	ethylene propylene diene rubber	excellent resistance to hot water and steam, good resistance to the solutions of acids, bases, salts, ketones, formaldehydes, glycol-based coolants
EPM	ethylene propylene rubber	good resistance (better than EPDM) to the solutions of acids, bases, salts, ketones, formaldehydes, industrial alcohols, glycols
NR	natural rubber	excellent resistance to abrasion and low temperatures
NBR	nitrile butadiene rubber (buna-n)	excellent resistance to oils, fats, petrochemical products (petrol, diesel oil)
CR	chloroprene rubber (neoprene)	excellent resistance to ozone, weather conditions; flame retardant, good resistance to freon-based refrigerants and oils
SBR	styrene butadiene rubber	excellent resistance to abrasion, low production cost
FPM / FKM	fluorocarbon rubber (Viton)	excellent resistance to petrochemical products (petrol, diesel oil), aromatic compounds and many acids and bases, good resistance to high temperatures
UPE (UHMWPE)	ultra-high-molecular-weight polyethylene	excellent resistance to most acids, bases and many other aggressive chemicals in elevated, though not very high temperatures
PTFE	polytetrafluoroethylene (Teflon)	excellent temperature and chemical resistance
PVC	polyvinyl chloride	good resistance to acids and bases solutions at room temperature, low production cost
PU	polyurethane	excellent resistance to abrasion, good resistance to oils and petrochemical products
PA	polyamide (nylon)	good resistance to solvents, paints, varnishes, adhesives

- A** - excellent resistance, suitable for continuous operation,
- B** - good resistance, intermittent operation,
- C** - limited resistance, limited use,
- X** - no resistance,
- - no data.

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SUBSTANCE	EPDM	EPM	NR	NBR	CR	SBR	FPM	XLPE	PTFE	PVC	PU	PA
Acetic acid 30%	A	A	B	C	B	B	C	A	A	C	X	C
Acetic aldehyde 50%	A	A	C/X	X	C	X	X	C/X	A	X	X	B
Acetic anhydride	C	B	B	C	B	B	X	A	A	-	X	B
Acetone	A	A	X	X	X	C	X	A/B	A	X	X	A/B
Acetyl chloride	X	X	X	X	X	X	A	-	A	-	X	-
Acetylene	A	A	B	A	B	B/C	A	-	A	A/B	B	A
Adipic acid	B	A	C	B	C	B	-	A	A	B	A	-
Aluminium acetate	B	A	A	B	B	B	X	-	A	B	X	-
Aluminium fluoride	B	A	B	A	A	A	A	A	A	-	C	X
Aluminium nitrate	B	A	A	A	A	A	A	A	A	B	C	-
Aluminium sulphate	B	A	A	A	A	A	A	A	A	A	X	X
Ammonium carbonate	B	A	A	X	A	A	-	A	A	-	B	B
Ammonium chloride	B	A	A	A	A	A	A	A	A	B	A	X
Ammonium chloride (sal ammoniac)	A	A	A	A/B	A	A	A	A	A	A	B	X
Ammonium hydroxide	A	A	X	X	A	X	B	A	A	B	X	A
Ammonium nitrate	B	A	C	A	A	B	-	A	A	-	X	A
Ammonium nitrite	B	A	A	A	A	A	-	A	A	-	-	-
Ammonium phosphate	B	A	A	A	A	A	-	A	A	C	-	A
Ammonium sulphate	B	A	A	A	A	A	X	A	A	B	A	A
Amyl acetate	X	C	X	X	X	X	X	A	A	X	X	A
Amyl alcohol (pentanol)	A	A	B	B	B	B	B	A	A	A	X	A
Anhydrous ammonia	contact Sales or Technical Department for proper hose selection											
Anhydrous bromine	X	X	X	X	X	X	A	X	A	-	-	-
Aniline	B	A	X	X	X	X	C	A	A	-	X	X
Aniline dyes	B	A	B	X	B	B	B	-	A	-	X	X
Aniline hydrochloride	C	B	B	B	X	X	B	-	-	-	-	-
Animal fats	C	B	X	A	B	X	A	A	A	-	C	A
Aqua ammonia - ammonia water	contact Sales or Technical Department for proper hose selection											
Aqua regia	C	C	X	X	X	X	B	-	A	X	X	X
Argon	A	A	A	A	A	A	A	A	A	A	A	A
Arsenic acid	B	A	B	A	A	A	A	A	A	-	C	-
Arsenic trichloride	X	C	X	A	A	-	-	-	-	-	-	-
Asphalt	contact Sales or Technical Department for proper hose selection											
Barium chloride	B	A	A	A	A	A	A	A	A	B	B	X
Barium sulphate	B	A	A	A	A	A	A	A	A	-	-	-
Barium sulphide	B	A	A	A	A	B	A	A	A	B	A	C
Beer	A	A	A	A	A	A	A	A	A	-	X	B
Benzene	X	X	X	X	X	X	A/B	C/X	A	X	X	A
Benzoic acid	X	C	X	C	X	X	A	A	A	-	X	B
Benzyl alcohol	B	B	X	X	B	X	A	A	A	X	X	X
Benzyl benzoate	C	B	X	X	X	X	A	-	A	-	-	-
Benzyl chloride	X	X	X	X	X	X	A	A/B	A	-	-	-
Bituminous tar	X	C	X	B	C	X	A	-	A	-	-	-
Bordeaux mixture	B	A	B	B	B	B	A	A	A	B	-	-
Boric acid	B	A	A	A	A	A	A	A	A	B	A	A
Brine (NaCl)	A	A	A	A	A	A	A	A	A	A	A	A
Bromine trifluoride	X	X	X	X	X	X	X	-	-	-	-	-

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SUBSTANCE	EPDM	EPM	NR	NBR	CR	SBR	FPM	XLPE	PTFE	PVC	PU	PA
Bromine water	B	B	X	X	X	X	A	-	A	-	-	-
Bromotoluene	X	X	X	X	X	X	A	-	A	-	-	-
Bunker oil	X	X	X	A	X	X	A	A	A	-	B	-
Butadiene	X	C	X	X	X	X	A	C	A	-	X	-
Butane	X	X	X	A	A	X	A	A	A	-	A	A
Butter	B	A	X	A	B	X	A	A	A	-	-	-
Butyl acetate	X	C	X	X	X	X	X	A	A	X	X	-
Butyl alcohol (butanol)	A/B	B	A	A	A	A	A	A	A	B	B	B
Butyl benzoate	C	B	C	X	X	B	A	-	A	-	-	-
Butyl cellosolve	B	A	X	C	C	X	X	-	A	-	A	-
Butyl stearate	X	C	X	B	X	X	A	A	A	-	-	-
Butylamine	B	A	X	C	X	X	X	-	A	-	-	-
Butyric aldehyde	C	B	X	X	C	X	X	-	A	-	X	-
Calcium acetate	B	A	A	B	B	X	X	A	A	-	X	-
Calcium chloride	B	A	A	A	A	A	A	A	A	C	A	C
Calcium hydroxide	A	A	A	A	A	A	A	A	A	B	A	A
Calcium hypochlorite	A	A	C	B	C	C	A	A	A	B	X	X
Calcium nitrate	B	A	A	A	A	A	A	A	A	-	A	A
Calcium sulphide	B	A	B	A	A	B	A	A	A	-	A	-
Carbitol	C	B	B	B	B	B	B	A	A	-	X	-
Carbon dioxide	C	B	B	A	B	B	A	A	A	B	A	A
Carbon disulphide	X	X	X	C	X	X	A	X	A	X	X	X
Carbon monoxide	B	A	B	B	B	B	A	A	A	B	B	A
Carbon tetrachloride	X	X	X	C	X	X	A	C	A	X	X	B
Carbonic acid	B	A	A	B	A	B	A	A	A	C	X	X
Castor oil	C	B	C	A	A	C	A	A	A	-	B	A
Cellosolve	C	B	X	X	X	X	C	-	A	-	-	-
Chinese wood oil	X	X	X	A	B	X	A	A	A	-	C	-
Chlorine	contact Sales or Technical Department for proper hose selection											
Chlorine dioxide	X	C	X	X	X	X	A	-	A	-	-	-
Chloroacetic acid	B	A	X	X	X	X	X	X	A	-	X	X
Chloroacetone	B	A	B	X	C	X	X	-	A	-	X	-
Chlorobenzene	X	X	X	X	X	X	A	B/C	A	X	X	B
Chlorobutadiene	X	X	X	X	X	X	A	-	A	-	-	-
Chloroform	X	X	X	X	X	X	A	A/B	A	X	X	X
Chlorotoluene	X	X	X	X	X	X	A	-	A	-	X	-
Chromic acid 50%	B	A	X	X	C	X	B	A	A	B	X	X
Citric acid	B	A	A	A	A	A	A	A	A	C	A	A
Cobalt	B	A	A	A	A	A	A	-	-	-	-	-
Coconut oil	X	C	X	A	B	X	A	A	A	-	C	-
Coke-oven gas	X	X	X	X	X	X	A	-	A	-	X	A
Copper acetate	B	A	B	B	B	X	X	-	A	-	-	-
Copper chloride	B	A	B	A	B	A	A	A	A	B	B	C
Copper cyanide	B	A	A	A	A	A	A	A	A	-	A	-
Copper sulphate	B	A	B	A	A	B	A	A	A	B	B	X
Corn oil	X	C	X	A	C	X	A	A	A	-	B	B
Cottonseed oil	B	B	X	A	B	X	A	A	A	-	B	A

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SUBSTANCE	EPDM	EPM	NR	NBR	CR	SBR	FPM	XLPE	PTFE	PVC	PU	PA
Creosote (coal tar)	X	X	X	A	B	X	A	A	A	X	C	X
Cresol	X	X	X	X	C	X	A	-	A	C	X	X
Cresylic acid	X	X	X	X	C	X	A	A	A	X	X	-
Crude oil	X	X	X	A	B	X	A	A	A	B	A	A
Cumene (isopropylbenzene)	X	X	X	X	X	X	A	-	A	-	X	-
Cyclohexane	X	X	X	A	C	X	A	A	A	C	B	A
Cyclohexanol	X	C	X	C	A	X	A	A	A	C	-	A
Cyclohexanone	B	B	X	X	X	X	X	A	A	X	X	A
Decalin	X	X	X	X	X	X	A	A	A	-	-	-
Denatured alcohol	B	A	A	A	A	A	A	A	A	-	-	-
Diacetone	B	A	X	X	X	X	X	A	A	-	-	-
Diacetone alcohol	A	A	X	X	C/X	X	X	A	A	X	X	B
Dibenzyl ether	C	B	X	X	C	X	X	-	A	-	-	-
Dibutyl ether	X	C	X	X	C	X	C	-	A	-	C	-
Dibutyl phthalate	C	B	X	X	X	X	C	A	A	-	X	A
Dibutyl sebacate	C	B	X	X	X	X	B	-	A	-	X	-
Dibutylamine	B	A	X	X	X	X	X	-	A	-	X	-
Dichlorobenzene	X	X	X	X	X	X	A	-	A	X	X	A
Dichloroethylene	X	C	X	X	X	X	B	C/X	A	X	X	A
Dichloro-isopropyl ether	X	C	X	X	X	X	C	-	A	-	-	-
Diesel oil	X	X	X	A	C	X	A	A	A	B	X	A
Diethyl sebacate	C	B	X	B	X	X	B	-	A	-	X	-
Diethylamine	B	A	B	B	B	B	X	A	A	C	-	-
Diethylaminobenzene	X	X	X	X	X	X	A	-	A	-	-	-
Diethylene glycol	A	A	A	A	A	A	A	A	A	B	X	-
Diisobutylene	B	A	X	B	X	X	A	A	A	-	-	-
Diisopropyl ketone	B	A	X	X	X	X	X	-	A	-	-	-
Diisopropylbenzene	X	X	X	X	X	X	A	-	A	-	-	-
Dimethyl phthalate	B	A	X	X	X	X	B	-	A	-	-	-
Dimethylformamide	B	A	X	B	C	X	X	A	A	X	-	-
Dinitrotoluene	X	X	X	X	X	X	A	-	A	-	-	-
Diocetyl phthalate	C	B	X	C	X	X	B	-	A	-	X	B
Diocetyl sebacate	C	B	X	X	X	X	B	-	-	-	-	-
Dipentene	X	X	X	B	X	X	A	-	A	-	X	-
Diphenyl (phenylbenzene)	X	X	X	X	X	X	A	-	A	-	-	-
Dowtherm, dautherm	X	X	X	X	X	X	A	-	A	-	-	C
Ethane	X	X	X	A	B	X	A	A	A	-	-	-
Ethanolamine	B	A	B	B	B	B	X	-	A	-	-	-
Ethyl acetate	B	A	X	X	C	X	X	A	A	X	X	A
Ethyl acetoacetate	B	A	C	X	C	C	X	A	A	-	-	-
Ethyl alcohol (ethanol)	A	A	A	A	A	A	C	A	A	B	X	A
Ethyl benzoate	B	A	A	X	X	A	A	-	A	-	-	-
Ethyl cellosolve acetate	C	B	X	X	X	X	X	-	A	-	X	C
Ethyl cellulose	C	B	B	B	B	B	X	-	A	-	B	C
Ethyl chloride	X	C	X	C	X	X	A	A/B	A	-	C	A
Ethyl ether (ether)	X	X	X	X	C	X	X	C	A	X	B	B
Ethyl formate	C	B	X	X	B	X	C	-	A	-	-	-

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SUBSTANCE	EPDM	EPM	NR	NBR	CR	SBR	FPM	XLPE	PTFE	PVC	PU	PA
Ethyl silicate	B	A	B	A	A	B	A	-	A	-	-	-
Ethylbenzene	X	X	X	X	X	X	A	A	A	-	-	-
Ethylene	C	B	C	A	C	C	A	A/B	A	-	-	-
Ethylene chloride	X	C	X	X	X	X	A	B/C	A	-	-	-
Ethylene chlorohydrin	C	B	B	X	B	B	A	-	A	-	X	-
Ethylene glycol	A	A	A	A	A	A	A	A	A	B	A	A
Ethylenediamine	B	A	A	A	A	B	X	-	A	-	X	-
Fatty acids	X	C	X	B	B	X	A	A	A	B	-	A
Fish-liver oil	X	X	X	A	X	X	A	-	A	-	-	-
Fluoric grease	B	A	B	A	B	C	B	-	A	-	-	-
Fluorobenzene	X	X	X	X	X	X	A	-	A	-	-	-
Fluoroboric acid	B	A	A	B	A	A	-	A	A	-	-	-
Formaldehyde (methanal)	A	A	B	C	B	B	X	A	A	C	X	A
Formic acid	B	A	B	B	A	A	C	A	A	C	X	X
Freon 114	B	A	A	A	A	A	B	B	A	-	-	-
Freon 12	C	B	B	A	A	A	B	A/B	A	-	B	A
Freon 13 - (chlorotrifluoromethane)	A	A	A	A	A	A	A	-	A	-	-	-
Freon 21 - (dichlorofluoromethane)	X	X	X	A	X	X	X	-	A	-	-	-
Freon 22 - (chlorodifluoromethane)	B	A	B	C	A	A	X	-	A	-	X	X
Fuming sulphuric acid (oleum)	X	X	X	X	X	X	A	X	A	X	X	X
Furfural	B	A	X	X	C	X	X	A	A	-	-	-
Gallic acid	B	A	B	B	B	B	B	A	A	B	X	-
Gaseous hydrogen	contact Sales or Technical Department for proper hose selection											
Gelatine	B	A	A	A	A	A	A	A	A	B	-	-
Glacial acetic acid 100%	B	A	B	C	X	B	C	A	A	B	X	X
Glucose	A	A	A	A	A	A	A	A	A	B	X	B
Glycerine	A	A	A	A	A	A	A	A	A	B	X	A
Green liquor	B	A	B	B	B	B	B	A	A	-	-	C
Helium	A	A	A	A	A	A	A	A	A	A	A	A
Hexafluorosilicic acid	C	B	B	A	B	C	B	A	A	B	-	A
Hexane	X	X	X	A	B	X	A	A	A	C	B	A
Hydraulic oil (petroleum, mineral)	X	X	X	A	B	X	A	A/B	A	-	A	A
Hydrobromic acid	B	A	A	X	X	X	A	A	A	B	X	X
Hydrochloric acid <20%	A	A	B	B	B	B	A	A	A	A	X	X
Hydrochloric acid 37%	A/B	A/B	B	C	B	B	A	A	A	X	X	X
Hydrocyanic acid	B	A	B	B	B	B	B	A	A	-	-	B
Hydrofluoric acid <50%	A	A	X	X	X	X	-	A	A	-	-	X
Hydrofluoric acid >50%	C	C	X	X	X	X	-	A	A	C	X	X
Iodine	X	X	X	X	X	X	X	A	A	-	-	-
Iron (II) sulphate	B	A	A	A	A	A	A	A	A	B	-	X
Iron III chloride	B	A	A	A	A	A	A	A	A	B	A	X
Iron III nitrate	B	A	A	A	A	A	A	A	A	B	A	A
Isobutyl alcohol (isobutanol)	A	A	A	B	A	B	A	A	A	B	-	-
Isooctane	X	X	X	A	B	X	A	A	A	B	A	A
Isopropyl acetate	C	B	X	X	X	X	X	A	A	X	X	-
Isopropyl alcohol (isopropanol)	A	A	A	B	B	B	A	A	A	B	X	A
Isopropyl chloride	X	X	X	X	X	X	B	-	A	-	-	-

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Isopropyl ether	X	X	X	B	C	X	X	A	A	-	A	-
Lactic acid	A	A	A	A	A	A	A	A	A	A	B	X
Lard	C	B	X	A	B	X	A	A	A	-	-	-
Lavender oil	X	X	X	B	X	X	A	B	A	X	X	-
Lead (II) acetate	B	A	A	B	A	X	X	A	A	B	X	-
Lead (II) nitrate	B	A	A	A	A	A	-	A	A	-	-	-
Lead sulfamate	B	A	B	B	A	B	A	-	A	-	-	-
Linseed oil	X	C	X	A	B	X	A	A	A	-	B	A
Liquefied natural gas (LNG)	contact Sales or Technical Department for proper hose selection											
Lubricating oils (petroleum)	X	X	X	A	B	X	A	B/C	A	-	A	A
Magnesium chloride	B	A	A	A	A	A	A	A	A	B	A	X
Magnesium hydroxide	A	A	B	B	A	B	A	A	A	B	B	X
Magnesium sulphate	B	A	B	A	A	B	A	A	A	B	-	A
Maleic acid	B	A	C	X	C	C	A	A	A	-	-	C
Maleic anhydride	C	B	C	X	C	C	X	-	-	-	-	-
Malic acid	B	A	B	B	B	C	A	-	A	B	-	-
Medicinal cod-liver oil	B	A	X	A	B	X	A	-	A	-	-	-
Mercury	B	A	A	A	A	A	A	A	A	-	B	A
Mesityl oxide	C	B	X	X	X	X	X	-	A	-	X	-
Methane	X	X	X	A	B	X	B	X	A	-	-	-
Methyl acetate	B	A	C	X	B	C	X	A	A	X	X	A
Methyl alcohol (methanol)	A	A	A	A	A	A	X	A	A	B	X	A
Methyl bromide	C	B	X	B	X	X	A	C/X	A	X	-	A
Methyl butyl ketone	B	A	X	X	X	X	X	-	A	-	X	-
Methyl cellosolve	C	B	X	B	B	X	X	-	A	-	X	-
Methyl chloride	X	C	X	X	X	X	B	A/B	A	-	X	X
Methyl ethyl ether	X	X	X	A	C	X	A	-	A	-	-	-
Methyl ethyl ketone (MEK)	B	A	X	X	C	X	X	A	A	X	X	A
Methyl isobutyl ketone	B	B	X	X	X	X	X	-	A	-	X	A
Methyl oleate	X	X	X	X	X	X	A	X	A	-	-	A
Milk	B	A	B	A	A	B	A	A	A	-	-	-
Mineral oil	X	C	X	A	B	X	A	B	A	B	A	A
Monoethanolamine	B	A	B	X	X	B	X	A	A	-	X	-
Naphtha	X	X	X	B	C	X	A	B/C	A	C	A	A
Naphtha (refined)	X	X	X	A	B	X	A	-	A	C	A	A
Naphthalene	X	X	X	X	X	X	A	A	A	C	C	A
Naphthenic acid	X	X	X	B	X	X	A	-	A	-	-	-
Natural gas	X	X	B	A	A	B	A	X	A	-	C	A
Nickel acetate	B	A	A	B	B	X	X	A	A	-	X	-
Nickel chloride	B	A	A	A	A	A	A	A	A	-	C	X
Nickel sulphate	B	A	B	A	A	B	A	A	A	-	-	A
Nitric acid <40%	X	X	X	X	B	X	A	A	A	X	X	X
Nitric acid >40%	X	X	X	X	X	X	C	C/X	A	-	-	-
Nitrobenzene	C	B	X	X	X	X	B	A/B	A	X	X	A
Nitroethane	C	B	B	X	C	B	X	A	A	-	X	-
Nitrogen	A	A	A	A	A	A	A	A	A	A	A	A
Nitromethane	C	B	B	X	B	B	X	-	A	-	X	-

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SUBSTANCE	EPDM	EPM	NR	NBR	CR	SBR	FPM	XLPE	PTFE	PVC	PU	PA
Octachlorotoluene	X	X	X	X	X	X	A	-	A	-	-	-
Octyl alcohol (octanol)	X	C	B	B	A	B	A	A	A	-	X	-
Oleic acid	X	X	X	C	C	X	B	A	A	B	B	A
Olive oil	C	B	X	A	B	X	A	A/B	A	-	A	-
Ortho-dichlorobenzene	X	X	X	X	X	X	B	X	A	-	X	-
Oxalic acid	B	A	B	B	B	B	B	A	A	-	A	X
Oxygen	contact Sales or Technical Department for proper hose selection											
Ozone	B	A	X	X	C	X	A	A/B	A	B	B	X
Palmitic acid	C	B	C	A	B	B	A	A/B	A	B	A	X
Para-isopropyltoluene	X	X	X	X	X	X	A	-	A	-	X	-
Peanut oil	X	C	X	A	C	X	A	A	A	-	-	-
Pentachloroethylbenzene	X	X	X	X	X	X	A	-	-	-	-	-
Perchloric acid	C	B	X	X	B	X	A	-	A	-	X	C
Perchloroethylene (tetrachloroethylene)	X	X	X	B	X	X	A	B	A	X	X	X
Petrol	X	X	X	A	C	X	A	A	A	B	B	A
Phenol (carbolic acid)	C	B	X	X	C	-	A	A/B	A	C	X	X
Phenyl benzene	X	X	X	X	X	X	A	-	A	-	-	-
Phenylhydrazine	C	B	A	X	X	B	A	-	A	-	-	-
Phorone (diisopropylidene acetone)	X	C	X	X	X	X	X	-	A	-	-	-
Phosphoric acid 20%	B	A	B	B	B	B	A	A	A	B	X	X
Phosphoric acid 80%	B	A	C	X	B	C	A	A	A	-	X	C
Phosphorous trichloride	B	A	X	X	X	X	A	A	A	-	-	-
Picric acid	B	A	B	B	B	C	B	A	A	-	X	X
Pine oil	X	X	X	A	X	X	A	B	A	B	-	-
Polyvinyl acetate emulsion	B	A	B	-	B	X	B	A	A	-	-	-
Potassium acetate	B	A	A	B	B	X	X	A	A	-	X	-
Potassium chloride	B	A	A	A	A	A	A	A	A	A	A	A
Potassium cuprocyanide	A	A	A	A	A	A	A	-	-	-	-	-
Potassium cyanide	B	A	A	A	A	A	A	A	A	B	A	A
Potassium dichromate	B	A	C	B	B	B	A	A	A	-	B	-
Potassium hydroxide	A	A	B	B	B	B	X	A	A	B	C	C
Potassium nitrate	B	A	A	A	A	A	A	A	A	B	A	A
Potassium sulphate	B	A	B	A	A	A	A	A	A	B	B	A
Propane	X	X	X	A	B	X	A	A	A	B	A	A
Propyl acetate	C	B	X	X	X	X	X	A	A	X	X	-
Propyl alcohol (propanol)	A	A	A	A	A	A	A	A	A	B	C	-
Propyl nitrate	B	A	X	X	X	X	X	-	-	-	-	-
Propylene	X	X	X	X	X	X	A	-	A	-	X	-
Propylene glycol	A	A	A	A	A/B	A	A	A	A	A	A/B	A
Pyridine	B	A	X	X	X	X	X	A	A	X	-	-
Salicylic acid	B	A	A	B	A	B	A	A	A	-	-	-
Salt water	A	A	A	A	A	A	A	A	A	B	A	A
Sewage	B	B	B	A	B	B	A	A	A	-	X	A
Silicone grease	B	A	C	A	A	C	A	A	A	-	-	-
Silicone oils	B	A	C	A	A	C	A	A	A	B	-	-
Silver nitrate	B	A	A	B	A	A	A	A	A	B	A	-
Skydrol 500	B	A	X	X	X	X	X	-	A	-	C	-

TECHNICAL INFORMATION

Table of hose material chemical resistance

SUBSTANCE	EPDM	EPM	NR	NBR	CR	SBR	FPM	XLPE	PTFE	PVC	PU	PA
Skydrol 7000	B	A	X	X	X	X	B	-	A	-	-	-
Soap solutions	A	A	B	A	B	A	A	A	A	B	C	A
Soda lye 50%	A	A	B	B	B	B	A	A	A	-	X	X
Soda, raw sodium carbonate	B	A	A	A	A	A	A	A	A	-	-	A
Sodium acetate	B	A	A	B	B	X	X	A	A	-	A	A
Sodium bicarbonate	A	A	A	A	A	A	A	A	A	B	-	-
Sodium bisulfite	B	A	A	A	A	B	A	A	A	B	-	-
Sodium borate (borax)	B	A	A	A	A	A	A	A	A	B	-	-
Sodium chloride (brine)	B	A	A	A	A	A	A	A	A	B	A	A
Sodium cyanide	B	A	A	A	A	A	A	A	A	B	-	A
Sodium hydroxide	A	A	A	B	B	A	B	A	A	B	B	C
Sodium hypochlorite 15%	A	A	X	X	B/C	X	A	A	A	A	X	X
Sodium metaphosphate	B	A	A	A	B	A	A	A	A	-	-	-
Sodium nitrate	B	A	B	B	B	A	-	A	A	B	X	A
Sodium perborate	B	A	B	B	B	B	A	A	A	B	-	A
Sodium peroxide	B	A	B	B	B	B	A	A	A	B	X	-
Sodium phosphate	B	A	A	A	B	A	A	A	A	B	A	A
Sodium silicate	B	A	A	A	A	A	A	A	A	B	-	A
Sodium sulphate	B	A	B	A	A	B	A	A	A	B	A	A
Sodium thiosulphate	B	A	B	B	A	B	A	A	A	B	A	A
Soybean oil	X	C	X	A	B	X	A	A	A	B	B	A
Steam	A	A	X	X	C	X	X	X	A	-	X	X
Stearic acid	C	B	C	B	B	B	-	A	A	B	A	A
Styrene	X	X	X	X	X	X	B	-	A	X	X	A
Sugar solution	A	A	A	A	A	A	A	A	A	-	-	-
Sulphur	B	A	X	X	A	X	A	A	A	-	-	-
Sulphur chloride	X	X	X	C	C	X	A	A	A	-	-	B
Sulphur dioxide	B	A	B	X	X	B	A	-	A	C	-	X
Sulphur trioxide	C	B	B	X	X	B	A	-	A	-	-	X
Sulphuric acid 10 ÷ 75%	B	A	X	X	X	X	A	A	A	X	X	X
Sulphuric acid 10%	A	A	C	C	B	C	A	A	A	C	X	X
Sulphuric acid 96%	C	C	X	X	X	X	A/B	A	A	X	X	X
Sulphurous acid	B	A	B	B	B	B	A	A	A	B	-	-
Tannic acid (tannin)	B	A	A	A	A	B	A	A	A	C	C	X
Tartaric acid	C	B	C	A	B	X	A	A	A	B	C	X
Terpineol	X	C	X	B	X	X	A	B	A	B	B	-
Tertiary butyl alcohol (tert-butanol)	C	B	B	B	B	B	A	A	A	-	X	-
Tetrachloroethylene	X	X	X	X	X	X	A	B	A	-	X	C
Tetraethyl lead	X	X	X	B	B	X	A	-	A	B	-	-
Tin chloride	B	A	A	A	B	A	A	A	A	-	-	A
Toluene	X	X	X	X	X	X	A	B	A	X	X	A
Transformer oil	contact Sales or Technical Department for proper hose selection											
Transmission fluid "A"	X	X	X	A	B	X	A	-	A	-	A	A
Trichloroacetic acid	C	B	C	B	X	B	C	-	A	-	X	-
Trichloroethane	X	X	X	X	X	X	A	-	A	-	X	-
Trichloroethylene	X	X	X	X	X	X	A	C/X	A	X	X	-
Tricresyl phosphate	X	X	X	X	X	C	A	A	A	-	X	-

TECHNICAL INFORMATION

Table of hose material chemical resistance

SUBSTANCE	EPDM	EPM	NR	NBR	CR	SBR	FPM	XLPE	PTFE	PVC	PU	PA
Triethanolamine	B	A	B	B	A	B	X	A	A	C	X	-
Trinitrotoluene	X	X	X	X	B	X	A	-	A	-	-	-
Turbine oil (lubricating)	contact Sales or Technical Department for proper hose selection											
Turpentine	X	X	X	B	X	X	A	A/B	A	C	A	A
Vegetable oils	X	C	X	A	C	X	A	A	A	-	-	-
Vinegar (acetic acid 10%)	B	A	B	B	B	B	B	A	A	B	X	A
Vinyl chloride	X	X	X	X	X	X	A	A/B	A	X	-	-
Vinylacetylene	B	B	B	A	B	B	A	-	A	-	-	-
Water	A	A	A	A	A	A	A	A	A	A	A	A
Whisky, wines	B	A	A	A	A	A	A	A	A	-	X	A
White mineral oil	X	X	X	A	B	X	A	A	A	-	A	-
Xylene	X	X	X	X	X	X	A	C	A	X	C	A
Zinc chloride	B	A	A	A	A	A	A	A	A	B	A	X
Zinc sulphate	B	A	B	A	A	B	A	A	A	B	-	A