

Chemical Resistance *

1 = excellent resistance
 2 = good resistance
 3 = mediocre resistance
 x = not resistant

Hose wall resp. coating material

Polyurethane
 Silicone
 Hypalon
 Viton
 vinyl/PVC
 Polyethylene
 PTFE
 neoprene
 Kapton

Medium

Accumulator acid	see Sulphuric acid								
Acetaldehyde	2	1	3	2	x	1	1	3	1
Acetate of copper			2			1	1	2	1
Acetic acid 10%	x	3	1	2	3	1	1	2	1
Acetic acid 25%	x	3	2	2	x	2	1		1
Acetic acid 50%	x	3	2	2	x	3	1	x	1
Acetic acid 100% (concentrate)	x	3	2	x	x	2	1	2	1
Acetic acid anhydride 50%	x	1	1	x	x	3	1	3	1
Acetic acid ethyl ester	see Ethyl acetate								
Acetic ether									
Acetone	x	2	2	x	3	1	1	3	1
Acetylacetone	x	x		x	x	x	1	3	1
Acetylene gas	1	1	1	1	1	1	1	1	1
Acids: see specific designations, Applicable in general	3	2	1-3	1	2-3	1-2	1	x	1
Acrylic acid ethylester	see Ethyl acrylate								
Acrylonitrile	x	2	3	2	x	1	1	3	1
Adipic acid			1	1	1	1	1	2	1
Adipic acid diethylester			1	x	x		1		1
Air, atmospheric, oil-free, to + °C	80	175	120	200	70	90	200		200
Air, oil saturated, to + °C	80	175	120	200	70	90	200		200
Alcohols: see specific designations, App. in general ¹	2	1-2	1	1-2	1-2	1-2	1	2	1
Aliphatic compounds: see Gasonline homologues									
Applicable in general	2	x	x	1	3	x	1	x	1
Alkyl chloride									
Alum	see Aluminium potassium sulphate								
Aluminium acetate, aqueous (basic aluminium acetate)	x	1			1	1	1	1	1
Aluminium chloride aqueous	1-2	x	1	1	1	1	1	1	1
Aluminium fluoride	3	1	1	1	1	1	1	1	1
Aluminium hydroxide	2	1		1	1	1	1		1
Aluminium nitrate, aqueous	2	1			1	1	1	1	1
Aluminium phosphate, aqueous (aluminium phosphate)		1	1	1	1	1	1	1	1
Aluminium sulphate, aqueous	1	1	2	1	1	1	1	1	1
Amines	see Specific designation								
Ammonia gas 20 °C	x	1	2	1	1	1	1	1	1
Ammonia in water (ammonia solution)	x	1	3	1	1	1	1	1	1
Ammonia, liquid	x	3	2	x	3	1	1	1	1
Ammonium carbonate, aqueous	x	2	1	1	1	1	1	1	1

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Ammonium chloride, aqueous	1	1-2	1	1	1	1	1	1	1
Ammonium diphosphate, aqueous (sal ammoniac)	1	1	2	1	1	1	1	1	1
Ammonium hydroxide, aqueous	see Ammonia in water								
Ammonium metaphosphate	1	1	1	1	1	1	1	1	1
Ammonium nitrate, aqueous	1	1	2	1	1	1	1	2	1
Ammonium nitrate		2	1				1	1	1
Ammonium persulphate, aqueous	2	1	1		1	1	1	1	1
Ammonium phosphate, aqueous	1	1	2	1	1	1	1	1	1
Ammonium sulphate	1	1	2	1	1	1	1	1	1
Ammonium thiocyanate	2	1				1	1	1	1
Amyl acetate ¹	x	3	x	x	x	2	1	3	1
Amyl alcohol	2	1	2	1	1	1	1	1	1
Amyl borate			1	1				1	1
Amyl chloride	x	3			x	x	1		1
Aniline (aminobenzene)	x	2	3	1-2	2	1	1	x	1
Aniline dyes	x	2	3	1	1	3	1	2	1
Animal fat	see Oils and greases, animal								
Anol	see Cyclohexanol								
Anon	see Cyclohexanon								
Antifreeze	see Precise chemical designation								
Antimony chloride 50%	2	x	1	1	1	1	1	1	1
Antimony	see Sodium thiosulphate								
Aqua fortis	see Nitric acid								
Agua regia	x	3	2	2	2	x	1	3	1
Arctons = ICI freon types	ask for our detailed applications advisory								
Argon gas	1	1	1	1	1	1	1	1	1
Aromatics: see Benzene, toluol, xylol and homologues,									
Applicable in general	x	x	3-x	1-2	x	x	1	2	1
Arsenic acid	3	1	1	1	1	1	1	2	1
Asphalt (pitch)	2	2	2	1	2	1	1	2	1
Ate-brake fluid	2	x	3	1	2	2	1	x	1
Bacon ¹	1	2	3	1		1	1	x	1
Barium chloride, aqueous	1	1	2	1	1	1	1	3	1
Barium hydroxide	1	1	2	1	1	1	1	3	1
Barium sulphate (Barite)	1	1	1	1	1	1	1	2	1
Barium sulphide	2	1	2	1	1	1	1	2	1
Basic aluminium acetate	see Aluminium acetate								

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Beer ¹	1	1	1	1	1	1	1	1	
Benzaldehyde	3	3	x	2	3	x	1	x	1
Benzene	x	x	3-x	1-2	x	x	1	x	1
Benzene	see Gasoline								
Benzoic acid, aqueous	x	x	x	1	1	1	1	1	1
Benzyl alcohol	x	1	2	1	3	3	1	3	1
Benzyl benzoate	1								
Benzyl chloride	x	2	x	1	x	2-3	1	x	1
Biphenyl oxide	x	2	x	3			1	x	1
Biphenyl	x	x	x	1	x	2	1	x	1
Biphenyls, polychlorinated (pyranol)	see Oils, transformer oils								
Bismuth carbonate	1	1	1	1	1	1	1	1	1
Bisulphite lye, containing SO ₂	1								
Bitumen 20 °C (see also Hot bitumen)	2	3	3	1	x	1	1	x	1
Blanc-fixe	see Barium sulphate								
Bleaching lye (eau de Javelle)	see Potassium hypochlorite								
Borax	see Sodium borate								
Boric acid, aqueous	1	3	1	1	1	1	1	1	1
Brake fluid	see Greases and oils								
Brandy, all kinds ¹	1	1	1	1	1	1	1	1	1
Brine (table salt solution) ¹	1	1	1	1	1	1	1	2	1
Bromine	x	x	x	1	x	x	1	x	1
Bromine water	x	x	x	1	x	x	1	x	1
Bromobenzene	x	x	x	1	x	x	1	x	1
Butadiene	1-2	2	1	3	1	1	2	1	1
Butane gas	1	3	1	1	1	x	1	1	1
Butane, liquid	1	3	1	1	2	1	1	1	1
Butanol	see Butyl alcohol								
Butanone	see Methyl ethyl ketone								
Buttermilk ¹	1	1	1	1	1	1	1	2	1
Butter ¹	2	1	2	1	2	1	1	2	1
Butyl acetate	x	3	3	x	x	x	1	x	1
Butyl alcohol	3	2	1	1	1	x	1	1	1
Butyl amine	x	2	x	x			1	x	1
Butyl benzoate	x								
Butyl carbitol	2								
Butyl ether	3	3	1		1	1	2	1	1

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Butyl glycol	3	2	1	x	1	1	x	1	1
Butyl oleate	x								
Butyl stearate	1	1	1	1	x	1	x	1	1
Butylene, liquid	3								
Butyraldehyde	3	3	x	1	1	x	1	1	1
Butyric acid, aqueous ¹	x	2	2-3	3	1	x	1	x	1
Calcinated soda	see Sodium carbonate								
Calcium oxide = calcinated lime	1	2	1	1	1	1	1	1	1
Calcium sulphide	1	2	1	1			1	1	1
Calcium acetate	2		x	1	1	3	1	1	1
Calcium bisulphite	3	2	1	1	1	1	1	1	1
Calcium bisulphite, aqueous	1	1	1	1	1	1	1	1	1
Calcium carbonate	1	1	1	1	1	1	1	1	1
Calcium chloride, aqueous	1	1	1	1	1	1	1	1	1
Calcium hydroxide, aqueous (slaked lime)	3	2	1	1	1	1	1	1	1
Calcium hypochlorite, aqueous	x	3	2	1	1	1	1	3	1
Calcium nitrate	1	2	1	1	1	1	1	1	1
Calcium sulphate (gypsum), aqueous	1	1	1	1	1	1	1	1	1
Carbitol	see Diethyl glycol monoethyl ether								
Carbolic acid	see Phenol								
Carbolium, aqueous	x	x	1	1	3	1	1	1	1
Carbon bisulphide	see Bisulphide of carbon								
Carbon dioxide, gaseous, as well as wet and dry and plastomers become stiff to brittle	1	1	1	1	1	1	1	1	1
Carbon monoxide	1	1	2	1	1	1	1	2	1
Carbon tetrachloride (tetrachloromethane)	3	x	x	1	x	x	1	x	1
Carbonic acid	see Carbon dioxide								
Castor oil ¹	1	1	1	1	2-3	1	2	1	1
Caustic potash	see Potassium hydroxide								
Caustic soda	see Sodium hydroxide								
Cellulose acetate	1	1			1	1	1	1	1
Cellulube hydraulic oil	see Phosphate ester based hydraulic oil								
Chile saltpeter	see Sodium nitrate								
Chloric acid aqueous	1								
Chloric acid gas	2	1	1-2	1	1	1	1	2	1
Applicable in general	x	x	x	2	x	x	1	x	1
Chlorinated lime	see Calcium hypochlorite								

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Chlorinated water 3%	3	2	3	2	1	2	1	x	1
Chlorine dioxide	x	3	1	1		x	1	1	1
Chlorine, dry	x	x	2	1	x	x	1	x	1
Chlorine, moist	x	x	2	1	x	x	1	x	1
Chloroacetic acid	see Monochloroacetic acid								
Chlorobenzene	see Monochlorobenzene								
Chlorobiphenyl (Clophene)	x	2	x	1	x	1	1	x	1
Chlorobromomethane	3	x	x	1	x	x	1	x	1
Chlorocalcium	see Calcium chloride								
Chloroethyl	see Ethyl chloride								
Chloroform (trichloromethane)	x	x	x	1	x	x	1	x	1
Chloromethyl	see Methyl chloride								
Chloroprene				1			1	x	1
Chlorosulphonic acid	x	x	x	x	x	x	1	x	1
Chloroethene	see Trichloro-ethane								
Chromic acid 10%	3	3	2	1	1	1	1	3	1
Chromic acid 25%	x	x	2	1	2	1	1	x	1
Chromic acid 50%	x	x	2	1	x	3	1	2	1
Chromium trioxide	see Chromic acid								
Citric acid ¹	1	1	1	1	1	1	1	1	1
Citric acid, aqueous	1	1	1	1	1	1	1	1	1
Clophene	see Chlorobiphenyl								
Coal tar (see also hot tar)	x	1	x	1	2	2	1	x	1
Coconut grease and oil	1	1	2	1	1	x	1	3	1
Compressed air	see Air, oil saturated								
Copper chloride, aqueous	1	1	1	1	1	1	1	1	1
Copper cyanide	2	1	1	1		1	1	1	1
Copper nitrate, aqueous	3	1	1	1	3	1	1	1	1
Copper sulphate, aqueous (blue vitriol)	1	1	1	1	2-3	1	1	1	1
Corn oil	1	1	2	1	2	x	1	3	1
Cottonseed oil ¹	1	1-2	1-2	1	1	1	1	2	1
Creosote	2	2	2-3	1	2-3	x	1	3	1
Cresol	see Cresylic acid								
Cresylic acid	x	2	3	1	x	x	1	3	1
Crude petroleum, strongly aromatic	2	x	2	1	3	3	1	3	1
Cupric hydroxide	see Mountain blue								
Cyankali	see potassium cyanide								

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Cyclohexane (hexahydrobenzene)	2	x	x	1	1	1	1	x	1
Cyclohexanol	x	2	1	1	x	1	1	2	1
Cyclohexanon	x	2	x	x	x	1	1	x	1
Decalin (decahydronaphthalene)	1	x	x	1	1	1	1	x	1
Detergent, synthetic, 20 °C	1	1	1	1	1	1	1	1	1
Developer liquids (in general)	2	1	1	1			1	1	1
Dextrose	see Glucose								
Diacetone alcohol	2	1	3	x			1	3	1
Dibenzyl ether	x	2	x	1	x		1	3	1
Dibutyl phthalate	3	2	3-x	2	3	3	1	x	1
Dibutyl sebacate	x	1	x	2	3	1	1	x	1
Dibutylamine		3	x	x			1	x	1
Dichloro-isopropyl ether	2	x	x	3			1	x	1
Dichlorobenzene	x	x	x	1	x	3	1	x	1
Dichloroethylene	x	x	x	2	x	x	1	x	1
Dichloromethane	x	x	x	2	x	x	1	x	1
Diesel oil	2	3	3	1	3	2	1	x	1
Diethanolamine						1	1		1
Diethyl ether	see Ether								
Diethyl sebacate		2	x	2			1	x	1
Diethylamine	3	2	3	x		3	1	x	1
Diethylbenzene	x	x	x		1		1	x	1
Diethylene glycol	3	2	1	1	1	1	1	1	1
Diethylene glycol monoethyl ether (carbitol)	x	2	2	2			1	3	1
Diglycol	see Diethylene glycol								
Dimethyl ether	2		3	3	x	2	1	x	1
Dimethyl formamide	3	2	3	x		1	1	x	1
Dimethyl phthalate			x	2			1	x	1
Dimethylamine			x	x	x	3	1	x	1
Dimethylaniline	x	2	3	1			1	x	1
Diocetyl phthalate	2	3	x	1-2	3	3	1	x	1
Diocetyl sebacate	2	3	x	2			1	x	1
Dioxane	x	x	x	x	x	1	1	x	1
Dipropylene glycol		2	1	1			1	1	1
Distilled oils ¹	2	x	3	1	x	x	1	x	1
Disulphide of carbon	2	x	x	1	2	x	1	x	1
Dodecyl alcohol				1			1	1	1

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Medium

Drilling oil: determine chemical composition									
Eau de Javelle			see Potassium hypochlorite						
Epichlorohydrin, liquid	x	x	x	x	1	1	x	1	
Epsom salt			see Magnesium sulphate						
in general	x	x	x	x	x	1-2	1	x	1
Ethanolamine	x	3	2	2	1	1	3	1	
Ethane (gas)	1	3	3	1	1	1	2	1	
Ethanol			see Ethyl alcohol						
Ether (ethyl ether, diethyl ether)	1	x	3	x	3	x	1	1	
Ethyl acetate	x	2	x	x	x	2	1	x	1
Ethyl acrylate		2	1	x	x	1	x	1	
Ethyl alcohol (denatured = spirits)	2	1	1	1	1	1	1	1	
Ethyl benzene	x	x	x	2	x	x	1	x	1
Ethyl bromide	2	x	x	1	x	2	1	x	1
Ethyl chloride	x	x	x	2	3	x	1	3	1
Ethyl dichloride	x	x	x	1	x	x	1	1	
Ethyl ether			see Ether						
Ethyl glycol	x		x	1	1	1	1	1	
Ethyl glycol acetate	x		x	1	1	1	1	1	
Ethyl mercaptan	x	3	2	x	1	x	1	1	
Ethylene diamine	x	3	2	2	x	1	1	2	1
Ethylene (gas) (ethene)	1	2	x	1	1	1	1	1	
Ethylene glycol	2	1	1	1	1	1	1	1	
Ethylene oxide	x	3-x	x	x	x	x	1	x	
Ethylene oxide, liquid	x	x	x	x	x	x	1	x	1
Fatty acids in general	1	3	3	1	1	3	1	3	1
Fermented fruit juice ¹	1	1	1	1	1	1	1	1	
Ferric chloride, aqueous	3	1	1	1	1	1	1	1	
Fluohydric acid			see Hydrofluoric acid						
Fluoride of boron acid 65%	x	x	2	1	1	1	3	1	
Fluorine, liquid			2	x	1	x	1		
Fluorobenzene		x	x	1	1	x	1		
Formaldehyde	2	1	1-2	1	2	1	1	2	1
8-12% methyl alcohol additive)	2	2	2	1	1	1	1	2	1
Formic acid	x	2	1	3	3	2	1	2	1
Freons and frigenes			ask for detailed user advisory						
Fruit juices ¹	1	1	1	1	1	1	1	1	

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Fruit pulp ¹	1	1	1	1	1	1	1	1	
Fuming sulphuric acid			see Oleum						
Furfural alcohol (furfurol)	x	2	2-3	3	1	x	1	3	1
Gallic acid	3	1	2	1	1	1	1	3	1
Gasoline, aviation	1-2	x	2	1	3	x	1	2	1
Gasoline, high aromatic	2-3	x	x	1	3	x	1	1	1
Gasoline, low aromatic	2	x	x	1	3	x	1	1	1
Gelatins, aqueous	1	1	1	1	1	1	1	1	1
Glacial acetic acid: acetic acid concentrate									
Glauber's salt			see Sodium sulphate						
Glucose ¹	1	1	1	1	1	1	1	1	1
Glue, animal	2	1	1	1	1	1	1	1	1
Glycerine	1	1	1	3	1	1	1	1	1
Glycerol			see Ethylene glycol pure						
Glycols: determine exact designation, App. in general	2	1	1	1	1	1	1	1	1
Grape juice: unfermented ¹	1	1	1	1	1	1	1	1	1
Greases			see Oils and greases						
Gypsum			see Calcium sulphate						
Heating oil	2	3	3	1	3	3	1	x	1
Heavy gasoline (white spirit, mineral turpentine)			see Gasoline						
Helium	1	1	1	1	1	1	1	2	1
Heptane	2	x	2	1	1	1	1	3	1
Hexahydrobenzene			see Cyclohexane						
Hexaldehyde	3	3	1	1	1	2	1		
Hexaline			see Cyclohexanol						
Hexane	2	x	1	1	1	1	1	1	1
Hexanol = hexyl alcohol	x	3	1	1	3	1	1	2	1
Hot air			see Air						
Hot bitumen to °C	x	x	x	180	x	x	200	x	200
Hot tar to °C	x	x	x	180	x	x	200	x	200
Hydraulic oils and liquids									
-mineral oil based	1	3	2	1	3	3	1	2	1
-glycol based	1-2	2							
-phosphate ester based	x	2-3	x	1	x	x	1	x	1
Hydrazine	x	x	2	x	1	1	1	3	1
Hydrazine hydrate, aqueous	x	3	1	1	1	1	1	2	1
Hydrobromic acid	3	2	1	1	x	1	1	1	1

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Hydrochloric acid 15%	2	1	1-2	1	1	1	1	3	1
Hydrochloric acid 38% (conc.)	x	3	1-2	1	2	1	1	3	1
Hydrocyanic acid					see Prussic acid				
Hydrofluoric acid 10%	2	1	1	1-2	1	2	1	2	1
Hydrofluoric acid 30%	2	1	1-2	1-2	x	2	1	2	1
Hydrofluoric acid 75%	3	1-2	1-2	1-2	x	x	1	2	1
Hydrofluosilic acid, aqueous	x	x	2	x	1	1	1		1
Hydrogen cyanide					see Prussic acid				
Hydrogen (gas)	1	3	1	1	1	1	1	1	1
Hydrogen peroxide 10%	2	1	1	1-2	1	2	1	x	1
Hydrogen peroxide 30%	2	1	1-2	1	x	1	1	2	1
Hydrogen sulphide, dry	3	1	1-2	1	x	1	1	3	1
Hydrogen sulphide, moist	3-x	1	1	1	3	1	1	3	1
Iodine tincture (5-10% alcohol iodine solution)	x	x	2	1	x	3	1	3	1
Iron sulphate, iron vitriol, aqueous	2	1	1	1	1	1	1	1	1
Isobutanol = isobutyl alcohol	x	1	1	1	1	1	1	1	1
Isooctane	2	1	2	1	1	x	1	3	1
Iso octanol = iso octyl alcohol	3	2	2	1	1	1	1	3	1
Isophoron	x	x	x	x			1	x	1
Isopropanol = isopropyl alcohol	3	1	1	1	3	1	1	2	1
Isopropyl acetate	3	2	x	x	2		1	x	1
Isopropyl benzene	3-x	x	x	1			1	x	1
Isopropyl chloride				1			1		1
Isopropyl ether	1		3	3	3	3	1	x	1
Javelle lye			see Potassium hypochlorite						
Jet fuel DPI-IPS		x		1	1	x	1	2	1
Kerosene	2	3	2-3	1	1	x	1	1	1
Ketones: see individual designations, Applicable in general	x	2	x	x	x	x	1	x	1
Laquer: composition must always be determined									
Lactic acid	2	3	3	1	3	2	1	x	1
Lanolin	1	3	3	1	2	2	1	3	1
Lard			see Oils and greases, animal						
Laughing gas			see Nitrous oxide						
Lauryl alcohol			see Dodecyl alcohol						
Lead acetate, aqueous	1	1			1	1	1		1
Lead arsenate, aqueous	1	1			1	1	1	1	1

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Polyurethane
 Silicone
 Hypalon
 Viton
 vinyl/PVC
 Polyethylene
 PTFE
 neoprene
 Kapton

Medium	Polyurethane	Silicone	Hypalon	Viton	vinyl/PVC	Polyethylene	PTFE	neoprene	Kapton
Lead nitrate		2	1				1	1	1
Lead sulphate	1	1			1	1	1	1	1
Light gasoline					see Gasoline				
Lighting gas					see Town gas				
Lignite tar oil					see coal tar				
Lime burned					see Calcium oxide				
Lime, slaked					see Calcium hydroxide				
Limestone					see Calcium carbonate				
Linseed oil	2	1	1-2	1	3	x	1	2	1
Liquid paraffin	2	2	3	1	1	3	1	x	1
Liquefied petroleum gas (LPG)					see relevant chemical identification of the gas				
Liver train (oil)	1	2	2	1	x	1	1	3	1
LPG					see relevant chemical designation of gas				
Lubricants and greases					see Oils				
Lyes: see exact designations, Applicable in general	2	2	1	2	1	1-2	1	1	1
Machine oils					see Oils, mineral				
Magnesium chloride, aqueous	1	1	1-2	1	1	1	1	2	1
Magnesium hydroxide	1		1	1			1	1	1
Magnesium silicate (talco)	1	1	1	1	1	1	1	1	1
Magnesium sulphate	1	1	1	1	1	1	1	1	1
Magnesium sulphite, aqueous	1	1	1	1	1	1	1	1	1
Maleic acid, aqueous	x		x	1	1	1	1	x	1
Malic acid, aqueous	3	1	1	1	1	1	1	1	1
Manure	1	1	1	1	1	1	1	1	1
Margarine greases and oils ¹	1	3	1-2	1	2	2-3	1	2	1
Mash ¹ (Potato)	1	1	1	1	1	1	1	1	1
MEK					see Methyl ethyl ketone				
Mercury	1	1	1	1	3	1	1	2	1
Mercury chloride (sublimite)	1	1	1-2	1	3	1	1	2	1
Mercury nitrate	1	1			1	1	1		1
Mesityl oxide		x	x	x			1	x	1
Methane (gas)	3	3	3	1	1	1	1	x	1
Methanol					see Methyl alcohol				
Methyl isobutyl ketone	x	3	x	x		1	1	x	1
Methyl acetate	x	x	x	x	x	1	1	x	1
Methyl alcohol	3	1	1	1-2	1	1	1	1	1
Methyl chloride	x	x	x	3	3	x	1	x	1

Chemical Resistance *

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Hose wall resp. coating material

Polyurethane	Silicone	Hypalon	Viton	vinyl/PVC	Polyethylene	PTFE	neoprene	Kapton
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Medium	Polyurethane	Silicone	Hypalon	Viton	vinyl/PVC	Polyethylene	PTFE	neoprene	Kapton
Methyl ethyl ketone (MEK)	x	x	x	x	3	1	1	3	1
Methyl glycol (methylcellosolve)			2	x	x	1	1	3	1
Methyl glycol acetate	x	x		x			1	x	1
Methyl phthalate			see Dimethylphthalate						
Methylamine, aqueous			1	1	3	1	1	2	1
Methylated spirit			see Ethyl alcohol, denatured						
Methylene chloride			see Dichloromethane						
Milk of lime (lime water)			see Calcium hydroxide, aqueous						
Milk ¹	2	1	x	1	1	1	1	x	1
Mineral oils			see Oils, mineral						
Mixed acid I: (sulphuric acid/nitric acid/water)	x	x	x	x	x	x	1	x	1
Mixed acid II: (sulphuric acid/phosphoric acid/water)			1	1	1	3	1	2	1
Molasses	1	1	1	1	1	1	1	1	1
Monochloroacetic acid	x	x	2	x	x	x	1	3	1
Monochlorobenzene	3	3	x	2	x	x	1	x	1
Monochloromethane			see Methyl chloride						
Monostyrol			see Styrol, monomer						
Motor oil			see Oils and greases, clarify mineral additives						
Mountain blue (cupric hydroxide)	1	1				1	1		1
Must, fermented			see Fermented fruit juice						
Must, unfermented	1	1	1	1	1	1	1	1	1
Myristyl alcohol = myristic alcohol			1	1	1	3	1	2	1
Naphtha	2	2	3	1	3	x	1	3	1
Naphthalene			see Liquid paraffin						
Natron, also double carbonated N			see Sodium bicarbonate						
Natural gas, dry	1	x	1	1	1	1	1	1	1
Natural gas, wet	1-2	x	1	1	1	2	1	1	1
Nickel sulphate, aqueous	2	1	1	1	1	1	1	1	1
Sulphuric acid, see latter)									
Nitric acid 10%	x	3	1-2	1-2	1	1	1	3	1
Nitric acid 25%	x	x	1-2	1-2	1	1	1	2	1
Nitric acid 40%	x	x	1-2	1-2	2	x	1	x	1
Nitric acid 60%	x	x	1-2	1-2	3	x	1	2	1
Nitrobenzene	x	x	x	2	x	x	1	x	1
Nitrogen	1	1	1	1	1	1	1	1	1
Nitrolool			x	3	x	1	1	x	1
Nitropropane	x	x	x	x			1	x	1

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Hose wall resp. coating material

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Medium	Polyurethane	Silicone	Hypalon	Viton	vinyl/PVC	Polyethylene	PTFE	neoprene	Kapton
Nitrous oxide (laughing gas)	1	1	1	1	1	1	1	1	1
Nonyl alcohol (nonanol)	x	2	2	x		1	1	3	1
Octane	1	x	x	1		1	1	x	1
Octanol = octyl alcohol	x	2	1	1	x	1	1	1	1
Oils and greases									
-mineral, without additives, at 20 C°	1	2-3	2-3	1	2	2	1	x	1
-mineral, without additives, to C°	60	x	150	200	x	30	200		200
-ASTM oil no 1 20 C°	1	2	1	1	2	2	1	1	1
-ASTM oil no 2 20 C°	2	3	2	1	1	3	1	1	1
-ASTM oil no 3 20 C°	2	3	2	2	2	3	1	1	1
-animal ¹	1	3	1-2	1	2	2-3	1	3	1
-vegetable ¹	1	3	1-2	1	2	2-3	1	2	1
-transformer oil (pyranol)	2	2	x	1	3	3	1	x	1
-silicon-based	1	x	1	1	1	1	1	1	1
-diesel oil	2	3	3	1	3	2	1	x	1
-heating oil	2	3	3	1	3	2	1	x	1
-hydraulic oils									
-mineral-based	2	3	1-2	1	3	3	1	3	1
-glycol-based (polyalkyl glycols)	1-2	2	2	3		1	1	2	1
-phosphate ester-based	x	2-3	x	1	x	x	1	x	1
Oleic acid	1	x	x	2	1	2	1	x	1
Olein									
Oleum (fuming sulphuric acid)	x	x	x	1	x	x	1	x	1
Oleum vapours	x	x	3	3	3	x	1	x	1
Olive oil ¹	1	2	1-2	1	1	1	1	2	1
Oxalic acid, aqueous	x	1	2	1	2	1	1	2	1
Oxygen, pure to C°	80	175	120	200	70	70	200	200	
Ozone	1	1	1	1	1	x	1	2	1
Palm oil	2	1	3	1	3	x	1	3	1
Palmitic acid	1	1	1-2	2	x	1	1	3	1
Paraffin	2	3	2-3	1	1	x	1	x	1
Paraformaldehyde	1	1		2		1	1	2	1
Pentachlorophenol	x	3					1		1
Pentane	x	x			1	x	1		1
Perborate									
Perchloric acid, aqueous	x	x	1	1	1	1	1	3	1
Perchloroethylene	x	2	x	1	x	x	1	x	1

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Hose wall resp. coating material

Polyurethane	Silicone	Hypalon	Viton	vinyl/PVC	Polyethylene	PTFE	neoprene	Kapton
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Medium

Sodium chlorate, aqueous	2	1	1	1	1	1	1	3
Sodium chloride (table salt)	2	1	1	1	1	1	1	3
Sodium cyanide	3	1	1	1	1	1	1	3
Sodium dichromate	3	2	1	1	1	1	1	3
Sodium fluoride	2	2	1	1	1	1	1	3
Sodium fluoraluminate 10%	2-3	2	1	1	1	1	1	3
Sodium hydroxide (sod lye) 25%, 20 °C	2	2	1	3	1	1	1	2
Sodium hydroxide (sod lye) 25%, 100 °C	x	x	3	x	x	1	x	3
Sodium hypochlorite 10%	2	1	1	1	1	1	1	1
Sodium hypochlorite 30%	3	3	1	2-3	1	2	1	1
Sodium metaphosphate		1	1	1	1	1	1	1
Sodium nitrate	1	1	1	1	1	1	1	1
Sodium nitrite	1	1	1	1	1	1	1	1
Sodium perborate		1	1	1	2	1	1	1
Sodium peroxide	3	x	2	2	1	3	1	1
Sodium phosphate (see also Trisodium phosphate)	2	1	1	1	1	1	1	1
Sodium silicate, aqueous	3	1	1	1	1	1	1	1
Sodium sulphate, aqueous	1	1	1	1	1	1	1	1
Sodium sulphide, aqueous			1	x	1	1	1	1
Sodium sulphide, aqueous	1	1	1	1	1	1	1	1
Sodium thiosulphate (antichlorine)	2	1	1	1	1	1	1	1
Soluble sodium								
Solutions								
Soyabean oil ¹	2	1	2	1	1	x	1	3
Spindle oil								
Spirit								
Starch, aqueous ¹	1	1	1	1	1	1	2	1
Starch, syrup ¹	1	1	1	1	1	1	1	1
Steam to °C	x	120	100	150	x	x	200	200
Stearin (stearic acid)	1	1	2-3	1	1	x	1	1
Styrene, monomer	3	x	x	2	x	x	1	x
Sublimate								
Sugar, aqueous ¹ (see also Raw sugar juice)	1	1	1	1	1	1	1	1
Sulphur, molten, 90 °C	2	1	1	1	x	x	1	2
Sulphur, dioxide								
Sulphur trioxide	2	3	2-3	1	1	1	x	1
Sulphuric acid, 10%	2	2	1	1	1	1	1	1

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Medium

Sulphuric acid, 30%	2	x	1	1	1	1	1	1
Sulphuric acid, 50%	2	x	1	1	1	1	1	1
Sulphuric acid, 75%	x	x	1-2	1	3	3	1	x
Sulphuric acid, 90%	x	x	2	1	x	x	1	3
Sulphuric acid, conc. (oleum, fuming sulphuric acid)	x	x	x	1	x	x	1	x
Sulphuric ether								
Sulphurous acid 75%, moist	x	3	2-3	2	x	3	1	3
Sulphurous acid 10%, moist	1	2	1-2	1	x	1	1	3
Table salt								
Talc								
Tallow	1	1	1	1	1	1	1	1
Tannic acid (tannin)	3	2	1-2	1-2	1	1	2	1
Tannin								
Tar (see also hot tar)	x	2	x	1	2	2	1	x
Test benzene = white spirit								
Tetrachloroethylene (perchloroethylene)	2	x	x	1	x	x	1	x
Tetrahydrofurane								
Tetraline = tetrahydronaphthalene								
Thinner for paint and lacquer: determine composition								
Tin chloride, aqueous	1	2	1	1	1	1	1	1
Toluol	x	x	x	1	x	x	1	x
Town gas, lamp gas (for natural gas, see latter)	3	3	3	1	1	1	1	x
Train								
Transformer oil								
Tributyl phosphate	x		x	x	1	1	x	1
Trichloroethane (chloroethane)	x	x	x	1		x	1	x
Trichloroethylene	x	x	x	1-2	x	x	1	x
Trichloromethane								
Tricresyl phosphate	x	1	x	2	x	3	1	x
Triethanolamine	x	1	3	1	x	1	1	x
Triethylamine								
Trioctyl phosphate								
Trisodium phosphate	3	1	1		1	1	1	1
Turpentine (oil)	x	x	x	1	3	3	1	2
Turpentine substitute								
Urine	1	1	1	1	1	1	1	1
Vaseline								

see Oils and greases, minerals

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	Polyurethane	Silicone	Hypalon	Viton	vinyl/PVC	Polyethylene	PTFE	neoprene	Kapton
Medium									
Vegetable oils, applicable in general	1	3	1-2	1	1	1	1	3	1
Vinegar (cooking vinegar) ¹	3	1	1	3	1	1	1	1	1
Vinyl acetate			1	1	x		1	1	1
Vinyl chloride, monomer	x	x		1	x	x	1	x	1
Vitriol oil	see Oleum								
Vitriol	see Copper sulphate								
Water									
-drinking or mineral water, without additives ¹ to °C	60	120	100	150	70	80	200		200
does not effect polymers, rather polymers effect water									
-mineral water, CO 2 saturated	1	1	1	1	1	1	1	1	1
-aqua regia	see Aqua Regia								
-seawater	2	1	1	1	1	1	1	1	1
Weathering	1	1	1	1	1	2	1	1	1
White gasoline	see Gasoline								
Wines, red and white ¹ I	1	1	1	1	1	1	1	2	1
Wood oil	2	3	3	1	3	2	1	x	1
Wool fat	see Lanoline								
Xylene	x	x	x	1-2	x	x	1	x	1
Zinc acetate, aqueous	x	x	x	x		1	1	x	1
Zinc chloride, aqueous	3	1	1	1-2	1	1	1	1	1
Zinc sulphate, aqueous	3	1	1	1	1	1	1	1	1

* at an ambient temperature of 20 °C

¹ for food: demand food-permissible quality