



TECHNIFLEX

KİMYASAL DAYANIM TABLOSU
CHEMICAL RESISTANCE TABLE

Chemical Resistance*

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

Hose wall resp coating material

polyurethane
silicone
Vinil/PVC
polyethylen
PTFE

Acetaldehyde	2	1	x	1	1
Acetate of copper				1	1
Acetic acid 25%	x	3	x	2	1
Acetic acid 50%	x	3	x	3	1
Acetic acid anhydride 50%	x	1	x	3	1
Acetic ether					
Acetone	x	2	3	1	1
Acetylene gas	1	1	1	1	1
Acids: see specific designations, Applicable in general	3	2	2-3	1-2	1
Acrylic acid ethylester: see Ethyl acrylate					
Acrylonitrile	x	2	x	1	1
Adipic acid			1	1	1
Alcohols: see specific designations, Applicable in general I)	2	1-2	1-2	1-2	1
See Gasoline homologues Applicable in general	2	x	3	x	1
Alkyl chloride					
Alum: see Aluminium potassium sulphate					
Aluminium acetate, aqueous					
Aluminium chloride, Aqueous	1-2	x	1	1	1
Aluminium fluoride	3	1	1	1	1
Aluminium nitrate, aqueous		2	1	1	1
Aluminium phosphate, aqueous					
Aluminium sulphate, aqueous	1	1	1	1	1
Amines:see specific designation					
Ammonia gas 20 °C	x	1	1	1	1
Ammonia, liquid	x	3	3	1	1
Ammonium carbonate, aqueous	x	2	1	1	1
Ammonium chloride, aqueous					
Ammonium diphosphate, aqueous (sal ammoniac)	1	1-2	1	1	1
Ammonium hydroxide, aqueous: See Ammonia in water	1	1	1	1	1
Ammonium metaphosphate	1	1	1	1	1
Ammonium nitrate, aqueous	1	1	1	1	1
Ammonium nitrite		2			1
Ammonium sulphate	1	1	1	1	1
Ammonium thiocyanate	2	1		1	1
Amyl acetate ¹⁾	x	3	x	2	1
Amyl alcohol	2	1	1	1	1
Amyl borate					1
Amyl chloride	x	3	x	x	1
Animal fat: see Oils and greases, animal					
Anon:see Cyclohexanon					
Antifreeze:see precise Chemical designation					
Antimony:see Sodium thiosulphate					
Aqua fortis:see Nitric acid					
Aqua regia	x	3	2	x	1
Arctons=ICI Freon types:ask for advisory					
Argon gas	1	1	1	1	1
Aromatics:see benzene,toluol, xylo					
Arsenic acid	3	1	1	1	1
Asphalt(pitch)	2	2	2	1	1
Ate-brake fluid	2	x	2	2	1
Bacon ¹⁾	1	2		1	1
Barium chloride, aqueous	1	1	1	1	1
Barium sulphate (Barite)	1	1	1	1	1
Barium sulphide	2	1	1	1	1
Basic aluminium acetate: see Aluminium acetate					
Benzaldehyde	3	3	3	x	1
Benzene					

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Benzoic acid, aqueous	x	x	1	1	1
Benzyl alcohol	x	1	3	3	1
Benzyl chloride	x	2	x	2-3	1
Biphenyl oxide	x	2			1
Biphenyls, polychlorinated(pyranol): Bismuth carbonate	1	1	1	1	1
Bisulphitelye, containing SO ₂			1	1	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
Brake fluid:see Greases and oils					
Bromine water	x	x	x	x	1
Bromobenzene	x	x	x	x	1
Butane gas	1	3	1	x	1
Butane, liquid	1	3	2	1	1
Butanol:see Butyl alcohol					
Butane :see Methyl ethyl ketone					
Butter milk ¹⁾	1	1	1	1	1
Butyl acetate	x	3	x	x	1
Butyl alcohol	3	2	1	x	1
Butyl benzoate					1
Butyl carbitol					1
Butyl glycol	3	2	x	1	1
Butyl oleate					1
Butyl stearate	1	1	1	x	1
Butyraldehyde		3		1	1
Butyric acid,aqueous ¹⁾	x	2	1	x1	
Calcinated soda:see Sodium carbonate					
Calcium oxide=calcinated lime	1	2	1	1	1
Calcium sulphide	1	2			1
Calcium acetate					1
Calcium bisulphite	3	2	1	1	1
Calcium bisulphite ,aqueous	1	1	1	1	1
Calcium carbonate	1	1	1	1	1
Calcium chloride, aqueous	1	1	1	1	1
Calcium hypochlorite, aqueous	x	3	1	1	1
Calcium nitrate	1	2	1	1	1
Calcium sulphate (gypsum),aqueous	1	1	1	1	1
Carbitol:see Diethyl glycol monoethyl ether					
Carbolic acid:see Phenol see Bisulphide of carbon as well as wet and dry	1	1	1	1	1
Carbon dioxide. Solid(dry ice- 80 °C but elastomers and plastomers					
Carbon monoxide	1	1	1	1	1
Carbon tetrachloride (tetrachloromethane)	3	x	x	x	1
Carbonic acid:see Carbon dioxide					
Caustic potash: see Potassium hydroxide					
Caustic soda :see Sodium hydroxide					
ester based hydraulic oil					
Chile saltpeter:see Sodium nitrate					
Chloric acid, aqueous			1	1	1
Chloric acid gas	2	1	1	1	1
Chlorinated hydrocarbons: Applicable in general	x	x	x	x	1
Chlorinated lime: see Calcium hypochlorite					
Chlorinated water 3%	3	2	1	2	1
Chlorine, dry	x	x	x	x	1
Chlorine, moist	x	x	x	x	1

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Chlorobenzene					
Chlorobiphenyl (Clophene)	x	2	x	1	1
Chlorocalcium:see Calcium chloride					
Chloroform (trichloromethane)	x	x	x	x	1
Chloromethyl:see Methyl chloride					
Chloroprene					1
Chlorosulphonic acid	x	x	x	x	1
Chlorothene:see Trichloro-ethane					
Chromic acid 10%	3	3	1	1	1
Chromic acid 25%	x	x	2	1	1
Chromic acid 50%	x	x	x	3	1
Citric acid ¹⁾	1	1	1	1	1
Citric acid,aqueous	1	1	1	1	1
Clophene:see Chlorobiphenyl					
Coal tar (see also hot tar)	x	1	2	2	1
Coconut grease and oil	1	1	1	x	1
Compressed air:see Air,oil saturated					
Copper chloride,aqueous	1	1	1	1	1
Copper nitrate,aqueous	3	1	3	1	1
Copper sulphate,aqueous(blue vitriol)	1	1	2-3	1	1
Corn oil	1	1	2	x	1
Cottonseed oil ¹⁾	1	1-2	1	1	1
Creosote	2	2	2-3	x	1
Cresol:see Cresylic acid					
Cresylic acid	x	2	x	x	1
Cupric hydroxide:see Mountain blue					
Cyankali:see potassium cyanide					
Cyclohexane (hexahydrobenzene)	2	x	1	1	1
Cyclohexanol	x	2	x	1	1
Cyclohexanon	x	2	x	1	1
detergent, synthetic,20 °C	1	1	1	1	1
Developer liquids (in general)	2	1			1
Dextrose:see Glucose					
Dibenzyl ether	x	2	x		1
Dibutyl phthalate	3	2	3	3	1
Dibutyl sebacate	x	1	3	1	1
Dibutylamine		3			1
Dichlorobenzene	x	x	x	3	1
Dichloroethylene	x	x	x	x	1
Dichloromethane	x	x	x	x	1
Diesel oil	2	3	3	2	1
Diethanolamine					1
Diethyl sebacate		2			1
Diethylamine	3	2		3	1
Diethylbenzene	x	x	1		1
Diethylene glycol	3	2	1	1	1
(carbitol)	x	2			1
Diglycol:see Diethylene glycol					
Dimethyl ether	2		x	2	1
Dimethyl phthalate					1
Dimethylamine			x	3	1
Dimethylaniline	x	2			1
Diocetyl sebacate	2	3			1
Dioxane	x	x	x	1	1
Dipropylene glycol		2			1
Distilled oils ¹⁾	2	x	x	x	1
Disulphide of carbon	2	x	2	x	1
Dodecyl alcohol					1
Drilling oil: determine chemical composition see Potassium hypochlorite					
Epichlorohydrin, liquid	x	x		1	1
Epsom salt,see Magnesium sulphate					
Esters:see individual designations,					
Ethanolamine	x	3		1	1
Ethane (gas)	1	3	1	1	1
Ethanol :see Ethyl alcohol					
Ether (ethyl ether, diethyl ether)	1	x	3	x	1
Ethyl acetate	x	2	x	2	1
Ethyl alcohol (denatured=spirits)	2	1	1	1	1
Ethyl benzene	x	x	x	x	1

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Ethyl dichloride	x	x	x	x	1
Ethyl glycol	x			1	1
Ethyl mercaptan	x	3			1
Ethylene(gas) (ethene)	1	2	1	1	1
Ethylene glycol	2	1	1	1	1
Ethylene oxide	x	3-x	x	x	x
Ethylene oxide, liquid	x	x	x	x	1
Fatty acids in general	1	3	1	3	1
Fermented fruit juice ¹⁾	1	1	1	1	1
Ferric chloride,aqueous	3	1	1	1	1
Fluohydric acid:see Hydrofluoric acid					
Fluorine,liquid				x	1
Fluorobenzene		x			1
Formaldehyde	2	1	1	1	1
Formaline (30-40&aqueous formaldehyde solution with 8-12%ethyl alcohol additive)	2	2	1	1	1
Formic acid	x	2	3	2	1
ask for detailed user advisory					
Fruit juices ¹⁾	1	1	1	1	1
Fruit pulp ¹⁾	1	1	1	1	1
Fuming sulphuric acid:see Oleum					
Furfural alcohol(furfurol)	x	2	1	x	1
Gallic acid	3	1	1	1	1
Gasoline,aviation	1-2	x	3	x	1
Gasoline,low aromatic	2	x	3	x	1
Gelatins,aqueous	1	1	1	1	1
Glacial acetic acid: acetic acid concentrate					
Glauber's salt:see Sodium sulphate					
Glue,animal	2	1	1	1	1
Glycerine	1	1	1	1	1
Glycerol:see Ethylene glycol pure					
Applicable in general	2	1	1	1	1
Grape juice:unfermented ¹⁾	1	1	1	1	1
Greases:see Oils and greases					
Gypsum:see Calcium sulphate					
Heavy gasoline (white spirit, mineral turpentine):see Gasoline					
Helium	1	1	1	1	1
Heptane	2	x	1	1	1
Hexahydrobenzene:see Cyclohexane					
Hexaline:see Cyclohexanol					
Hexane	2	x	1	1	1
Hexanol=hexyl alcohol	x	3	3	1	1
Hat air:see Air					
Hot tar to °C	x	x	x	x	200
Hydraulic oils and liquids mineral oil based	1	3	3	3	1
phosphate ester based	x	2-3	x	x	1
Hydrazine	x	x	1	1	1
Hydrazine hydrate,aqueous	x	3	1	1	1
Hydrochloric acid 15%	2	1	1	1	1
Hydrochloric acid 38% (conc.)	x	3	2	1	1
Hydrocyanic acid:see Prussic					
Hydrofluoric acid 10%	2	1	1	2	1
Hydrofluoric acid 30%	2	1	x	2	1
Hydrofluoric acid 75%	3	1-2	x	x	1
Hydrofluosilic acid,aqueous	x	x	1	1	1
Hydrogen cyanide:see Prussic acid					
Hydrogen peroxide 10%	2	1	1	2	1
Hydrogen peroxide 30%	2	1	x	1	1
Hydrogen sulphide,dry	3	1	x	1	1
Hydrogen sulphide,moist	3-x	1	3	1	1
(5-10% alcohol iodine solution)	x	x	x	3	1
Iron sulphate, iron vitriol,aqueous	2	1	1	1	1
Isobutanol=isobutyl alcohol	x	1	1	1	1
Isooctane	2	1	1	x	1
Iso octanol=iso octyl alcohol	3	2	1	1	1
Isopropanol=isopropyl alcohol	3	1311			
Isopropyl acetate	3	2	2		1

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Isopropyl benzene	3-x	x			1
Isopropyl chloride					1
Isopropyl ether	1		3	3	1
Jet fuel DPI-IPS		x	1	x	1
Kerosene	2	3	1	x	1
Ketones:see individual designations, Applicable in general	x	2	x	x	1
Lacquer:composition must					
Lactic acid ¹⁾	2	3	3	2	1
Lanolin	1	3	2	2	1
Lard:see Oils and greases. Animal					
Lauryl alcohol:see Dodecyl alcohol					
Lead acetate, aqueous	1	1	1	1	1
Lead arsenate, aqueous	1	1	1	1	1
Lead nitrate		2			1
Light gasoline:see Gasoline					
Lighting gas:see Town gas					
Lignite tar oil:See coal tar					
Lime, slaked see Calcium hydroxide					
Limestone:see Calcium carbonate					
Linseed oil ¹⁾	2	1	3	x	1
Liquid paraffin	2	2	1	3	1
Liquefied petroleum gas (LPG); see relevant chemical identification					
Liver train (oil) ¹⁾	1	2	x	1	1
LPG:see relevant chemical designation of gas					
Lyes:see exact designations, Applicable in general	2	2	1	1-2	1
Machine oils:see Oils, mineral					
Magnesium hydroxide	1				1
Magnesium silicate(talc)	1	1	1	1	1
Magnesium sulphate	1	1	1	1	1
Magnesium sulphite, aqueous	1	1	1	1	1
Maleic acid, aqueous	x		1	1	1
Malic acid, aqueous	3	1	1	1	1
Manure	1	1	1	1	1
Margarine greases and oils ¹⁾	1	3	2	2-3	1
MEK:see Methyl ethyl ketone					
Mercury	1	1	3	1	1
Mercury chloride (sublimite)	1	1	3	1	1
Mercury nitrate	1	1	1	1	1
mesityl oxide		x			1
Methane(gas)	3	3	1	1	1
Methanol:see methyl alcohol					
Methyl isobutyl ketone	x	3		1	1
Methyl acetate	x	x	x	1	1
Methyl alcohol	3	1	1	1	1
methyl chloride	x	x	3	x	1
Methyl glycol(methylcellosolve)			x	1	1
Methyl glycol acetate	x	x			1
Methyl phthalate:see Dimethyl phthalate			3	1	1
Methylamine, aqueous					
Methylated spirit: see Ethyl alcohol, denatured					
Methylene chloride: see Dichloromethane					
Milk of lime (lime water): Milk ¹⁾	2	1	1	1	1
Mineral oils:see Oils mineral					
Mixed acid I (sulphuric acid/phosphoric acid/water)	x	x	x	x	1
Mixed acid II: (sulphuric acid/phosphoric acid/water)			1	3	1
Molasses ¹⁾	1	1	1	1	1
Monochloroacetic acid	x	x	x	x	1
Monochlorobenzene	3	3	x	x	1
Monochloromethane:see methyl chloride					
Motor oil:see Oils and greases, Clarify mineral additives					
Mountain blue (cupric hydroxide) see Fermented fruit juice	1	1		1	1
Must,unfermented ¹⁾	1	1	1	1	1
Myristyl alcohol=myristic alcohol			1	3	1
Naphtha	2	2	3	x	1

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Natron,also double carbonated N: see sodium bicarbonate					
Natural gas, dry	1	x	1	1	1
Nickel sulphate, aqueous	2	1	1	1	1
Nitrating acid (mixture of nitric acid and conc.sulphuric acid, see latter)					
Nitric acid 10%	x	3	1	1	1
Nitric acid 40%	x	x	2	x	1
Nitric acid 60%	x	x	3	x	1
Nitrobenzene	x	x	x	x	1
Nitroluol			x	1	1
Nitropropane	x	x			1
Nitrous oxide (laughing gas)	1	1	1	1	1
Nonyl alcohol (nonanol)	x	2		1	1
Octanol=octyl alcohol	x	2	x	1	1
Oils and greases mineral, without additives, at 20 °C	1	2-3	2	2	1
ASTM oil no 1 20 ° C	1	2	2	2	1
ASTM oil no 2 20 ° C	2	3	1	3	1
ASTM oil no 3 20 ° C	2	3	1	3	1
animal ¹⁾	1	3	2	2-3	1
vegetable ¹⁾	1	3	2	2-3	1
transformer oil (pyranol)	2	2	3	3	1
diesel oil	2	3	3	2	1
heating oils	2	3	3	2	1
hydraulic oils					
glycol-based (polyalkyl glycols)	1-2	2		1	1
phosphate ester- based	x	2-3	x	x	1
Oleic acid	1	x	1	2	x
Oleum(fuming sulphuric acid)	x	x	x	x	1
Oleum vapours	x	x	3	x	1
Olive oil ¹⁾	1	2	1	1	1
Oxalic acid, aqueous	x	1	2	1	1
Oxygen, pure to °C	80	175	70	70	200
Ozone	1	1	1	x	1
Palm oil ¹⁾	2	1	3	x	1
Palmitic acid	1	1	x	1	1
Paraformaldehyde	1	1		1	1
Pentachlorophenol	x	3			1
Pentane	x	x	1	x	1
Perborate:see Sodium borate					
Perchloric acid, aqueous	x	x	1	1	1
Perchloroethylene	x	2	x	x	1
Perhydrol:see Oxygen superoxide					
Permanganate: see Potassium permanganate					
Petroleum (see also Oils, mineral)	1	2	x	2-3	1
Petroleum ether:see Gasoline					
Phosphoric acid 50%	2	2	1	1	1
Phosphoric acid 85%	x	3	1	1	1
Phosphoric alumina: see Aluminium phosphate					
Phosphorus oxychloride			x	3	1
Phthalic acid anhydride, aqueous(phthalic acid)			1	1	1
Picric acid	x	1	1	1	1
Polychlorinated diphenyls (pyranol): Potash:see Potassium carbonate					
Potassium acetate, aqueous	x	x	1	1	1
Potassium aluminium sulphate(alum)	1	2	1	1	1
Potassium borate, aqueous	1	1	1	1	1
Potassium bromide, aqueous	1	1	1	1	1
Potassium bicarbonate	2	1	1	1	1
Potassium bichromate: see Potassium dichromate					
Potassium carbonate(potash)	3	1	1	1	1
Potassium chlorate, aqueous	2	2		1	1
Potassium cyanide	3	1	x	1	1
Potassium dichromate	2	1	1	1	1
Potassium hydroxide					
Potassium hypochlorite (eau de Javelle)	x	2	1	3	1
Potassium iodide, aqueous			3	1	1
Potassium lye:see Potassiumhydroxide					
Potassium nitrate, aqueous	1	1	1	1	1

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Potassium sulphate	1	1	1	1	1
Potassium sulphite	1	1	1	1	1
Propane, liquid	1	3	1	x	1
Propanol:see Propyl alcohol					
Propionic acid			1	1	1
Propyl acetate				2	1
Propyl alcohol	3	2	3	1	1
Propylamine	x	x			1
Ptopylene	x	x			1
Propylene dichloride		x		x	1
Propylene glycol		1	3	1	1
Prussic acid 20%	2	2	1	1	1
Prussic acid 98% (conc.)	2	2	11		1
Pydrual:see Hydraulic liquids based on phosphate esters					
Pyranol:see Oils,transformer					
Quick lime:see Calcium hydroxide					
Radioactive radiation, Applicable in general	3	x	x	3	x
Rapeseed oil ¹⁾	2	x			1
Raw sugar sap ¹⁾	3	1	1	1	1
Salmiac:see Ammonium chloride					
Salt:if table salt see Sodium chloride					
Saltpetre:see Potassium nitrate					
Saltwater: see Brine or see Water,Seawater					
Sangajol=turpentine oil substitute: see Gasoline					
Seawater:see Water					
Silicon dioxide (silicic acid)	1	1	1	1	1
Silicon oils and greases	1	2	x	1	1
Skydrol:see Hydraulic liquids based on phosphate esters	2	1	1	1	1
Soap solution see Sodium carbonate,anhydrous					
Soda,crySTALLISED:see Sodium carbonate					
Soda lye:see sodium hydroxide					
Sodium acetate,aqueous	3	1	1	1	1
Sodium bicarbonate,aqueous	2	1	1	1	1
Sodium bisulphate	x	1	1	1	1
Sodium bisulphite,aqueous	x	1	1	1	1
Sodium carbonate	x	1	1	1	1
Sodium chlorate,aqueous	2	1	1	1	1
Sodium chloride (table salt)	2	1	1	1	1
Sodium cyanide	3	1	1	1	1
Sodium dichromate	3	2	1	1	1
Sodium fluoride	2	2	1	1	1
Sodium fluoraluminate 10%	2-3	2	1	1	1
Sodium hydroxide (sod lye) 25%,20 °C	2	2	1	1	1
Sodium hydroxide (sod lye) 25%,100 °C	x	x	x	x	1
Sodium hypochlorite 30%	3	3	1	2	1
Sodium metaphosphate		1	1	1	1
Sodium nitrate	1	1	1	1	1
Sodium nitrite	1	1	1	1	1
Sodium perborate		1	2	1	1
Sodium peroxide	3	x			1
Sodium phosphate (see also Trisodium phosphate)	2	1	1	1	1
Sodium silicate, aqueous	3	1	1	1	1
Sodium sulphate, aqueous	1	1	1	1	1
Sodium sulphide, aqueous			1	1	1
Sodium sulphide, aqueous	1	1	1	1	1
Sodium thiosulphate (antichlorine)	2	1	1	1	1
Soluble sodium:see sodium silicate					
Soyabean oil ¹⁾	2	1	1	x	1
Spindle oil:see Oils,mineral					
Spirit:see ethyl alcohol,denatured					
Starch, aqueous ¹⁾	1	1	1	1	1
Starch syrup	1	1	1	1	1
Steam to C	x	120	x	x	200
Stearin (stearic acid)	1	1	1	x	1
Styrene, monomer	3	x	x	x	1
Sugar, aqueous ¹⁾ (see also Raw sugar juice)	1	1	1	1	1
Sulphur,molten,90 °C	2	1	x	x	1
Sulphur dioxide:see Sulphurous acid					
Sulphur trioxide	2	3	1	1	1
Sulphuric acid 10%	2	2	1	1	1

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Sulphuric acid 50%	2	x	1	1	1
Sulphuric acid 75%	x	x	3	3	1
Sulphuric acid, conc. (oleum,fuming sulphuric acid)	x	x	x	x	1
Sulphuric ether:see Ether					
Sulphurous acid 75% moist	x	3	x	3	1
Sulphurous acid 10% moist	1	2	x	1	1
Table salt:see sodium chloride					
Talc:see magnesium silicate					
Tallow	1	1	1	1	1
Tannic acid (tannin)	3	2	1	1	1
Tar (see also hot tar)	x	2	2	2	1
Test benzene=white spirit:see Gasoline					
Tetrachloroethylene (perchloroethylene)	2	x	x	x	1
Tetrahydrofurane			x	3	1
Tetraline=tetrahydronaphthalene determine composition					
Tin chloride,aqueous	1	2	1	1	1
Toluol	x	x	x	x	1
Town gas, lamp gas (for natural gas,see latter)	3	3	1	1	1
Transformer oil:see Oils					
Tributyl phosphate	x		x	1	1
Trichloroethane (chloroethane)	x	x		x	1
Trichloroethylene	x	x	x	x	1
Trichloromethane:see Chloroform					
Tricresyl phosphate	x	1	x	3	1
Triethanolamine	x	1	x	1	1
Triethylamine				1	1
Trisodium phosphate	3	1	1	1	1
Turpentine (oil)	x	x	3	3	1
Turpentine substitute:see Gasoline					
Urine	1	1	1	1	1
Vaseline:see Oils and greases, minerals					
Vinegar (cooking vinegar)	3	1	1	1	1
Vinyl acetate			x		1
Vinyl chloride,monomer	x	x	x	x	1
Vitriol oil:see Oleum					
Vitriol:see Copper sulphate					
Water drinking or mineral water, distilled,demineralised,desalinated condensed water:does not effect polymers,rather polymers affect water mineral water, CO2 saturated aqua regia:see Aqua Regia seawater	1	1	1	1	1
Weathering	1	1	1	2	1
White gasoline:see Gasoline					
Wines,red and white ¹⁾	1	1	1	1	1
Wool fat:see Lanoline					
Xylene	x	x	x	x	1
Zinc acetate,aqueous	x	x		1	1
Zinc chloride,aqueous	3	1111			
Zinc sulphate,aqueous	3	1	1	1	1