chemical resistance table
tabelle der chemischen beständigkeiten

The following data are based on tests and believed to be reliable; however the tabulation should be used as a guide ONLY, since it does not take into consideration all variables that may be encountered in actual use. All critical applications should be tested.

Die folgenden Angaben beruhen auf Tests und werden als zuverlässig gehalten. Allerdings sollte die Aufstellung NUR als Richtwert betrachtet werden, da nicht alle Variablen der möglichen Einsätze berücksichtigt sind. Alle kritischen Anwendungen sollten geprüft werden.

PVC - P

FITT MULTIFLEX XTREME
FITT OILFLEX
FITT METALFLEX
FITT ENOFLEX
FITT ENOFLEX SF
FITT AGROFLEX LD
FITT AGROFLEX HD
FITT AGROFLEX UV-R LD
FITT AGROFLEX UV-R HD
FITT SUPERELASTIC
FITT ALIFLEX LD
FITT ALIFLEX
FITT ALIFLEX MEDIUM
FITT LIGHTFLEX
FITT LIGHTFLEX BK
FITT ASPIRFLEX
FITT ASPIRFLEX PLUS
FITT ASPIRTECH
FITT B ACTIVE
FITT IDROFLEX
FITT BARRIER CDS
FITT EXTRA WHITE
FITT REFITTEX WHITE
FITT CLEANY HOSE
FITT REFITTEX 80 BAR
FITT REFITTEX 40 BAR
FITT REFITTEX 20 BAR ULTRAFLEX
FITT REFITTEX 20 BAR C
FITT REFITTEX 20 BAR
FITT AIR HOSE KIT
FITT REFITTEX CRISTALLO
FITT REFITTEX CRISTALLO C
FITT REFITTEX MARINE
FITT CRISTALLO EXTRA
FITT AQUARIUM
FITT REFITTEX FUEL
FITT REFITTEX GAS GPL
FITT REFITTEX GAS METANO
FITT REFITTEX GAS EN 16436-1
FITT PROFY
FITT FLAT HD
FITT FLAT LD
FITT MULTIFLEX XTREME WIRE
FITT NTS MASTERPLUS
FITT NTS WATER
FITT NTS MARINE
FITT NTS WORK
FITT CAPTIVE GREY
FITT CAPTIVE WHITE

EVA

FITT EVAPOOL

PU

FITT MULTIFLEX PU
FITT MULTIFLEX PU WIRE
FITT ALIFLEX PU WIRE
FITT VENFLEX PU LD
FITT REFITTEX PU 20 BAR

▲ Very good - *sehr gut*

● Good - *gut*

■ Poor - *mangelhaft*

★ Not suitable - *ungeeignet*

	PVC-P	EVA	PU
Acetaldehyde C_2H_4O	■	★	
Acetamide C_2H_5NO	■		
Acetic acid (10 RT) $C_2H_4O_2$	●		
Acetic acid (50 RT) $C_2H_4O_2$	★		■
Acetic acid (50-70 RT) $C_2H_4O_2$	★	■ ●	
Acetic acid (100 RT) $C_2H_4O_2$	★	●	
Acetic anhydride $C_4H_6O_3$	★	●	
Acetone C_3H_6O	★	★	■
Acetylene C_2H_2	▲		
Acrylonitrile C_3H_3N	★		
Aluminum acetate	▲	▲	
Aluminum bromide $AlBr_3$	●	▲	
Aluminum chloride $AlCl_3$	●	▲	
Aluminum fluoride AlF_3	●	▲	
Aluminum nitrate $Al(NO_3)_3$	●	▲	
Aluminum aulfate $Al_2(SO_4)_3$	▲	▲	
Ammonia (anhydrous) NH_3	●	▲	
Ammonia gas	■		
Ammonia liquid	●		
Ammonium carbonate $(NH_4)_2CO_3H_2O$	▲	▲	
Ammonium chloride NH_4Cl	▲	▲	
Ammonium hydraxide H_5NO	●	▲	●
Ammonium nitrate NH_4NO_3	●	▲	
Ammonium nitrite $H_3N.HNO_3$	●	▲	
Ammonium persulfate $O_8S_2ZN_4N$	●	▲	
Ammonium phosphate $(NH_4)_3PO_4$	●	▲	
Ammonium sulfate $(NH_4)_2SO_4$	▲	▲	
Amyl acetate $C_7H_{14}O_2$	★	★	
Amyl alcohol $C_5H_{12}O$	■	★	
Amyl borate			
Amyl naphthalene			
Aniline C_6H_7N	★	★	■
Aniline dyes	▲		
Animal oil (lard oil)	■		
Aqus regia	★	★	
Arsenic acid H_3AsO_4	●		
Asphalt	▲		
ASTM oil n. 1	■		●
ASTM oil n. 2	■		●
ASTM oil n. 3	■		●
ASTM reference fuel A		★	●
ASTM reference fuel B		★	●
ASTM reference fuel C		★	●
Barium chloride $BaCl_3$	▲	▲	
Barium Hydroxide $Ba(OH)_2$	▲	▲	
Barium sulfate $BaSO_4$	▲	▲	
Barium sulfide	●	▲	
Benzaldehyde C_7H_6O	★		★
Benzene (Benzol)C_6H_6	★	★	■
Benzine	●		
Benzyl alcohol $C_6H_5CH_2$	★		
Benzyl benzonate $C_9H_{10}O_2$	●		
Benzyl chloride C_7H_7Cl	★		
Boric acid H_3BO_3	●		
Bromine Br	★		
Butane C_4H_{10}	●		●
Butyl acetate	★		★
Butyl acrylate	★		
Butyl alcohol $C_4H_{10}O$	★		●
Butyl stearate	●		
Calcium acetate $Ca(CH_3CO_2)_2$	▲	▲	
Calcium disulfite	▲	▲	
Calcium chloride $CaCl_2$	▲	▲	
Calcium hydroxide $Ca(OH)_2$	▲	▲	
Calcium hypochlorite	▲	▲	

	PVC-P	EVA	PU
Calcium nitrate $Ca(NO_3)_2$	▲	▲	
Calcium sulfide CaS	▲	▲	
Carbitol	★		
Carbon dioxide CO_2	▲		
Carbon disulfide CS_2	★		●
Carbonic acid H_2CO_3	●		
Carbon tetrachloride CCl_4	★		■
Castor oil	■	★	
Cellosolve $C_3H_8O_2$	★		
Cellosolve Acetate $CH_3CO_2CH_2CH_2OC_2H_5$	★		
Cellosolve Butyl $C_6H_{14}O_2$	★		
Chlorine gas (dry) Cl	■		★
Chlorine gas (wet) Cl	■		★
Chlorine liquide Cl	★		
Chlorinated solvents	★	★	
Chloroacetic acid $C_2H_3ClO_2$	■		
Chloroacetone C_3H_5ClO	★		
Chloroform $CHCl_3$	★		
Chloronaphthalene	★		
Chlorosulfonic acid HSO_3Cl	★		
Chlorotoluene C_7H7Cl	★		
Chormic acid H_2CrO_4	●		
Citric acid $C_6H_8O_7$	●		●
Coconout oil	■		
Copper chloride $CuCl_2$	●		
Copper cyanide CuCN	●		
Copper sulfate $CuSO_{4.5}H_2O$	▲		
Corn oil	■		
Cottonseed oil	■		
Creosote oil	★		
Cresol C_7H_8O	■		
Cyclohexane C_6H_{12}	★	★	
Cyclohexanol $C_6H_{12}O$	★	★	●
Cyclohexanone $C_6H_{10}O$	★	★	★
Developing solution(Hypos)	●		
Dibenzl ether	★		
Dibutyl ether	★		
Dibutyl phthalate(DBP) $C_{16}H_{22}O_4$	★		■
Dichlorobenzene $C_6H_4Cl_2$	★		
Diethylene glycol $C_4H_{10}O_3$	★	▲	
Diethyl ether $C_4H_{10}O$	★	★	●
Diethyl sebacate (DES)	★		
Diisopropyl ketone	★		
Dimethyl aniline $C_8H_{11}N$	★		
Dimethyl formamide C_3H_7NO	★		★
Dioctyl phthalate(DOP) $C_{24}H_{38}O_4$	★		■
Dioctyl sebacate(DOS)	★		
Dioxane $C_4H_8O_2$	★	★	●
Diphenyl $C_{12}H_{10}$		★	
Diphenyl oxide	★		
Epichlorohydrine C_3H_5ClO	★		
Ethanolamine C_2H_7NO	★		
Ethyl acetate $C_4H_8O_2$	★	★	■
Ethyl acetoacetate $C_6H_{10}O_3$	★		
Ethyl acrylate $C_4H_6O_2$	★		
Ethyl alcohol C_2H_6O	★	●	■●
Ethyl benzene C_8H_{10}	★		
Ethyl cellulose	★		
Ethyl chloride C_2H_5Cl	★		★
Ethylene chlorohydine C_2H_5ClO	★		
Ethylene diamine $C_2H_8N_2$	★		
Ethylene dichloride $C_2H_4Cl_2$	★		
Ethylene glycol $C_2H_6O_2$	★		●
Ethylene oxide C_2H_4O	★		
Ethyl ether $C_4H_{10}O$	▲		●

	PVC-P	EVA	PU
Ethyl mercaptan	★		
Ethyl oxalate	★		
Ethyl sillcate	★		
Fatty acid	▲		
Ferric chloride $FeCl_2$	▲	■	
Ferric nitrate $Fe(NO_3)_2$	▲	■	
Ferric sulfate $FeSO_4$	●		
Fluoroboric acid BF_4H	●		
Fluorobenzene	★		
Fluosilicic acid $F_6Si._2H$	●		
Formaldehyde CH_2O	●		●
Formic acid (25-RT) CH_2O_2	■		■
Formic acid (50-RT) CH_2O_2	★		
Formic acid (90-RT) CH_2O_2	★		■
Freon 12			
Freon 22			
Fuel oil	★		
Furan furfuran C_4H_4O	★		
Furtural $C_5H_4O_2$	★		
Gasoline	★	★	●
Gelatin	▲		
Glauber's salt	▲		
Glycerin $C_3H_8O_3$	■	●	●
Grease	★		
(n-)Hexaldehyde	★		
Hexane C_6H_{14}	★		●
Hexyl alcohol	■		
Hydrobromic acid	■●		
Hydrobromic acid (20-70)	■		
Hydrobromic acid (37-RT)	★	★	
Hydrochlonic acid (10-RT) HCl	●		■
Hydrochloric acid (20-RT) HCl	●		
Hydrochloric acid (20-80) HCl	★		
Hydrochloric acid (38-RT) HCl	■	■	★
Hydrocyanic acid HCN	●		
Hydrofluoric acid (10-RT) HCN	●		
Hydrofluoric acid (20-RT) HCN	■		
Hydrofluoric acid (40-RT) HCN	★		
Hydrofluoric acid anhybrous	★		
Hydrogen H	▲		
Hydrogen peroxide (5-RT) H_2O_2	●	●	■
Hydrogen peroxide (5-50) H_2O_2	●	●	■
Hydrogen peroxide (30-RT) H_2O_2	●	●	■
Hydrogen sulfide H_2S	●		●
Hydroquinone $C_6H_6O_2$	●		
Hypochlorous acid HClO	●		
Isobutyl alcohol $C_4H_{10}O$	★		
Isooctane C_8H_{18}	★		●
Isopropyl acetate $C_5H_{10}O_2$	★		
Isopropyl alcohol C_3H_8O	★		
Isopropyl ether $C_6H_{14}O$	★		
Kerosene	■●		
Lacquer	★		
Lactid acid $C_3H_6O_3$	●		
Lard	■		
Lead acetate $Pb(CH_3CO_2)_2$	●		
Lead nitrate $Pb(NO_3)_2$	●		
Lead sulfamate	●		
Lineleic acid $C_{18}H_{30}O_2$	●		
Linseed oil	■		
Liqulide petroleum gas	■		
Lubricatig oil	■		
Magnesium chloride $MgCl_2$	▲		
Magnesium hydroxide $Mg(OH)_2$	▲		
Magnesium sulfate $MgSO_4$	▲		

	PVC-P	EVA	PU
Maleic acid $C_4H_4O_4$	●		
Malic acid $C_4H_6O_5$	●		
Marcuric chloride $HgCl_2$	●		
Marcury Hg	▲		
Methyl acetate $C_3H_6O_2$	★		
Methyl alcohol CH_4O	★	●	●
Methyl choride CH_3Cl	★		★
Methyl ethyl ketone(MEK)	★	★	■
Methyl methacrylate $C_5H_8O_2$	★		
Methyl isobutyl ketone $C_6H_{12}O$	★		
Methylene dichloride	★	★	
Mineral oil	■	★	
Monochlorobenzen	★	★	
Monoethanolamine	●		
Naphtha	■	■	
Naphthalene $O_{10}H_8$	●		
Naphthenic acid	●		
Natural gas	▲		
Nickel acetate	●		
Nickel chloride $NiCl_2$	▲		
Nickel sulfate $NiSO_4$	▲		
Nitric acid (10-RT) HNO_3	●		■
Nitric acid (10-70) HNO_3	■		
Nitric acid (30-RT) HNO_3	■		★
Nitric acid (30-70) HNO_3	★		
Nitric acid (61.3-RT) HNO_3	★		
Nitric acid HNO_3	★		
Nitrobenzen $C_6H_5NO_2$	★		■
Nitroethane $C_2H_5NO_2$	★		
Nitromethane CH_3NO_2	★		
Nitropropane	★		
Nitrogen N	▲		
Octyl alcohol	■		
Oleic acid $C_{18}H_{34}O_2$	■		●
Olive oil	■		
Oxalic acid $C_2H_2O_4$	●		●
Oxygen O	▲		
Ozone O_3	●		
Palmitic acid $C_{16}H_{32}O_2$	●		
Perchloric acid $HClO_4$	●		
Perchloroethylene	★		
Petroleum	■		●
Phenyl hydrazine $C_6H_8N_2$	★		
Phenol C_6H_6O	★	★	●
Phosphoric acid (50-RT) H_3PO_4	▲		
Phosphoric acid (50-70) H_3PO_4	■		
Phosphoric acid (75-RT) H_3PO_4	●		
Pickling solution	●		
Picric acid $C_6H_3N_3O_7$	★		
Pinene	★		
Pine oil	★		
Potassium chloride KCl	▲	▲	
Potassium cyanide KCN	▲	▲	
Potassium dichromate $K_2Cr_2O_7$	▲	▲	
Potassium hydroxide KOH	▲		
Potassium permanganate $KMnO_4$	●	■	
Potassium sulfate K_2SO_4	▲	▲	
Propane $CH_3CH_2CH_3$	▲		
Propyl acetate $C_5H_{10}O_2$	★		
Propyl alcohol $CH_3(CH_2)_2OH$	★	●	
Propylene $CH(CH_3)CH_2$	■		
Pyridine C_5H_5N	★		■
Salycilic acid $C_7H_6O_3$	▲		
Salt water	▲		
Silicate ester	●		

	PVC-P	EVA	PU
Silicone greases	■		
Silicone oil	■		
Silver nitrate $AgNO_3$	●		
Soap solution	▲		
Soda ash	▲		
Sodium bicarbonate	▲	▲	
Sodium bisulfate	●	▲	
Sodium bisulfite $HO_3S.NA$	●	▲	
Sodium chloride NaCl	▲		
Sodium cyanide NaCN	▲		
Sodium hydroxide (10-RT) NaOH	●	▲	●
Sodium hydroxide (30-RT) NaOH	●	▲	■
Sodium hydroxide (30-70) NaOH	★		
Sodium hypochlorite (5-RT) NaClO	●		
Sodium hypochlorite (5-70) NaClO	■		
Sodium metaphospate $NaPO_3$	▲		
Sodium nitrate $NaNO_3$	▲		
Sodium perborate	●		
Sodium peroxide Na_2O_2	●		
Sodium phosphate	▲		
Sodium thiosulfate $Na_2S_2O_3$	▲		
Sodium sulfite Na_2S	●		
Soybean oil	■		
Stannic chloride $SnCl_2$	●		
Steam H_2O	★		
Stearic acid $C_{18}H_{36}O_2$	●		
Styrene C_8H_8	★		■
Sulfur S	●		
Sulfur chloride			
Sulfur dioxide SO_2	▲		●
Sulfuric acid (10-RT) H_2SO_4	▲		■
Sulfuric acid (10-70) H_2SO_4	★		
Sulfuric acid (30-RT) H_2SO_4	●	■	★
Sulfuric acid (30-70) H_2SO_4	★	★	
Sulfuric acid (98-RT) H_2SO_4	★	★	★
Sulfuric acid H_2SO_4	★	★	
Sulfurous acid (10-RT) H_2SO_3	●		
Tannic acid $C_{14}H_{10}O_9$	●		●
Tar	★		
Tartaric acid $C_4H_6O_6$	●		
Tetrachloroethane CCl_4	★		
Tetraetbyl lead $Pb(C_2H_5)_4$	■		
Tetrahydrofuran C_4H_8O	★	★	■
Tetralin $C_{10}H_{12}$	★		
Thionyl chloride $TiCl_2$	★		
Toluene C_7H_8	★	★	■
Tributyl phosphate $C_{12}H_{27}O_4P$	★		
Trichloroeethylene C_2HCl_3	★	★	■
Tricresyl phosphate	★		■
Triethanol amine $C_6H_{15}NO_3$	■		
Turpentine oil	●		●
Vegetable oil	■		●
Vinegar	●		
Water H_2O	▲		
Xylene C_8H_{10}	★	★	■
Zinc acetate	▲		
Zinc chloride $ZnCl_2$	▲		
Zinc sulfate ZnS	▲		