

Fluid Compatibility Table

COMPATIBILITY RATING

	Nitrile (NBR)	Ethylene Propylene (EPDM)	Fluorocarbon (FKM)	Neoprene/Chloroprene (CR)	Polyacrylate (PA)	Fluorosilicone (FVMQ)	Silicone (MQ, VMQ, PVMQ)
1 = Satisfactory							
2 = Fair (Usually OK for Static Seal)							
3 = Doubtful (sometimes OK for Static Seal)							
4 = Unsatisfactory							
X = Insufficient Data							
ACETAMIDE	2	2	4	3	4	4	1
ACETAMIDE	1	1	3	1	4	1	2
ACETIC ACID, GLACIAL	1	1	4	4	4	4	1
HOT, HIGH PRESS	4	3	4	4	4	4	3
5%	2	1	1	1	4	2	1
ACETONE	4	1	4	4	4	4	4
ACETOPHENONE	4	1	4	4	4	4	4
ACETYLENE	1	1	1	2	X	X	2
AMMONIA, GAS, COLD	1	1	4	1	4	4	1
GAS, HOT	4	2	4	2	4	4	1
LIQUID (ANHYDROUS)	2	1	4	1	4	4	2
AMMONIUM HYDROXIDE,							
3 MOLAR	1	1	2	1	4	1	1
CONCENTRATED	4	1	3	1	4	1	1
AMYL ACETATE	4	1	4	4	4	4	4
ANDEROL, L-774 (DI-ESTER)	2	4	1	4	2	2	4
ANTIFREEZE	1	1	1	1	4	X	1
ANILINE	4	2	3	4	4	3	4
ANSUL ETHER 161 OR 181	3	3	4	4	4	3	4
AROCLOR, 1248	3	2	1	4	4	2	2
1254	4	2	1	4	4	2	3
1260	1	X	1	1	4	1	1
ASKAREL	2	4	1	4	4	2	4
ASTM OIL NO.1	1	4	1	1	1	1	1
NO.3	1	4	1	4	1	1	3
ASTM REDERANCE FUEL A	1	4	1	2	2	1	4
B	1	4	1	4	4	1	4
C	2	4	1	4	4	2	4
D	2	4	1	4	4	X	4
AUTO. TRANSMISSION FLUID	1	4	1	2	1	X	4
BEER	1	1	1	1	4	1	1
BENZALDEHYDE	4	1	4	4	4	4	4
BENZENE	4	4	1	4	4	1	4
BENZINE	1	4	1	2	1	1	4
BENZOIC ACID	4	4	1	4	4	2	4
BENZOPHENONE	X	2	1	X	4	1	X
BENZYL ALCOHOL	4	2	1	2	4	2	X
BLEACH LIQUOR	4	1	1	4	4	2	2
BORAX	2	1	1	4	2	2	2
BORIC ACID	1	1	1	1	4	1	1
BRAKE FLUID (NON-PETROLEUM)	3	1	4	2	X	4	3
BROMINE	4	4	1	4	4	2	4
BROMOBENZENE	4	4	1	4	4	1	4
BUNKER OIL	1	4	1	4	1	1	2

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1 = Satisfactory							
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BUTANE	1	4	1	1	1	1	4
BUTTER-ANIMAL FAT	1	1	1	2	1	1	2
N-BUTYL ACETATE	4	2	4	4	4	4	4
BUTYL ALCOHOL	1	2	1	1	4	1	2
BUTYL AMINE OF N-BUT AMINE	3	4	4	4	4	4	2
BUTYL CARBITOL	4	1	5	5	4	4	4
BUTYL CELLOSOLVE	3	2	4	3	4	4	X
BUTYRALDEHYD	4	2	4	4	4	4	4
CARBITOL	2	2	2	2	4	2	2
CARBITOL ACETATE	4	4	1	4	4	X	4
CARBON DISULFIDE	4	4	1	4	3	1	X
CARBON TETRACHLORIDE	2	4	1	4	4	2	4
CARBONIC ACID	2	1	1	1	1	1	1
CASTOR OIL	1	2	1	1	1	1	1
CELLOSOLVE	4	2	4	4	4	4	4
CHASSIS GREASE	1	4	2	2	1	X	4
CHLORACETIC ACID	4	2	4	4	4	4	X
CHLORACETONE	4	1	1	2	X	X	4
CHLORODANE	2	4	1	3	X	2	4
CHLORINE, DRY	4	4	1	4	4	1	4
CHLORINE DIOXIDE	4	3	1	4	4	2	X
CHLORINE DIOXIDE, 8% CL	4	4	1	4	4	2	X
AS NAC10 IN SOLUTION							
CHLORINE TRIFLUORIDE	4	4	4	4	4	4	4
CHLORINE, WET	3	2	1	4	4	2	X
CHLOROBENZOL	4	4	1	4	4	X	4
CHLOROFORM	4	4	1	4	4	2	4
CHLOROSULPHONIC ACID	4	4	4	4	4	4	4
CHROME PLATING SOLUTIONS	4	2	1	4	4	2	2
CHROMIC ACID, 50%	4	2	1	4	4	3	3
CITRIC ACID	1	1	1	1	X	1	1
COD LIVER OIL	1	1	1	2	1	1	2
COFFEE	1	1	1	1	4	1	1
CORN OIL	1	3	1	3	1	1	1
CREOSOTE, COAL TAR	1	4	1	2	1	1	4
CREOSOTE OIL	1	4	1	2	X	X	2
CREOSYLIC ACID	4	4	1	4	4	2	4
CRUDE OIL	2	4	1	4	1	2	4
CYCLOHEXANE	1	4	1	3	2	1	4
CREOSYLIC ACID	4	4	1	4	4	2	4
CRUDE OIL	2	4	1	4	1	2	4
CYCLOHEXANE	1	4	1	3	2	1	4
CYCLOHEXNOL	1	4	1	2	X	1	4
DECALIN	4	4	1	4	X	1	4

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DENATURED ALCOHOL	1	1	1	1	4	1	1
DIACETONE	4	1	4	4	4	4	4
DIBUTYLAMINE	4	4	4	3	4	4	3
DIBUTYL PHTHALATE	4	2	3	4	4	3	X
DICHLORO ANILINE	4	4	2	4	4	X	4
DICHLORO BUTANE	2	4	1	4	4	2	4
DIESEL OIL	1	4	1	3	1	1	4
DIETHYLAMINE	2	2	4	2	4	4	2
DIETHYL BENZENE	2	4	1	4	X	X	X
DIETHYLENE GLYCOL	1	1	1	1	4	1	2
DIMETHYL ETHER	4	4	4	3	3	3	4
DIMETHYL FORMAMIDE	4	1	4	X	X	X	1
DIMETHYL PHTHALATE	4	1	1	4	4	X	X
DIMETHYL TEREPHTHALATE	4	4	1	4	4	X	4
DIOCTYL PHTHALATE	4	2	2	4	4	2	3
DIOXANE	4	2	4	4	4	4	4
DIPHENYL	4	4	1	4	4	2	4
DOW CORNING-550	1	1	1	1	1	1	3
DOW GUARD	1	1	1	1	3	1	1
DOWTHERM, A	4	4	1	4	4	2	4
E	4	4	1	4	4	2	4
ELCO 28-EP LUBRICANT	1	4	1	3	1	1	2
EPOXY RESINS	X	1	4	1	X	X	X
ETHANE	1	4	1	2	1	2	4
ETHANOL	1	1	3	1	4	1	1
ETHANOL AMINE	2	2	4	2	4	4	2
ETHYL ACETATE-ORGANIC ESTER	4	2	4	4	4	4	2
ETHYL BENZENE	4	1	1	4	4	1	4
ETHYL CELLULOSE	2	2	4	2	4	4	2
ETHYL CHLORIDE	1	1	1	1	3	1	4
ETHYL ETHER	3	3	4	4	4	3	4
ETHYL FORMATE	4	2	1	2	X	1	X
ETHYL HHEXANOL	1	1	1	1	4	1	2
ETHYL MERCAPTAN	4	3	4	2	X	X	3
ETHYLENE CHLORIDE	4	4	1	4	4	X	4
ETHYLENE OXIDE	4	1	4	4	4	X	4
FORMALDEHYDE	3	2	4	3	4	4	2
FORMIC ACID	2	1	4	1	X	X	2
FREON 12	1	2	1	1	X	4	4
FUEL OIL	1	4	1	2	1	1	4
FURAN (FURFURAN)	4	X	X	4	4	X	X
FURFURAL	4	2	4	4	4	X	4
FURFURYL ALCOHOL	4	2	X	4	4	4	4
GALLIC ACID	2	2	1	2	4	1	X

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GALLIC ACID	2	2	1	2	4	1	X
GASOLINE	1	4	1	4	4	1	4
GELATIN	1	1	1	1	4	1	1
GLUCOSE	1	1	1	1	X	1	1
GLYCERINE-GLYCEROL	1	1	1	1	4	1	1
N-HEPTANE	1	4	1	2	1	1	4
N-HEXALDEHYDE	4	1	4	1	X	4	2
N-HEXANE	1	4	1	2	1	1	4
HEXANOL	1	2	1	1	4	X	1
HOME HEATING OIL	1	4	1	2	1	X	1
HYDRAZINE	2	1	X	2	X	X	2
HYDROCHLORIC ACID, 3 MOLAR	3	1	1	3	2	2	4
CONCENTRATED	4	3	1	4	4	3	4
HYDROCYANIC ACID	2	1	1	2	4	2	3
HYDROGEN PEROXIDE 90%	4	3	1	4	4	2	2
HTDROGEN SULFIDE DRY, COLD	1	1	4	1	4	3	3
DRY, HOT	4	1	4	2	4	3	3
WET, COLD	4	1	4	1	4	3	3
WET, HOT	4	1	4	2	4	3	3
HYDROQUINONE	3	4	2	4	4	2	X
HYPOID GEAR LUBE	1	4	1	2	1	X	2
IODINE	2	2	1	4	X	1	X
ISOCYANATE	X	X	1	X	X	X	X
ISO OCTANE	1	4	1	2	1	1	4
ISOPHORONE (KETONE)	4	1	4	4	4	4	4
ISOPAR	1	4	1	1	1	X	4
ISOPROPANOL	2	1	1	2	4	2	1
ISOPROPYL ACETATE	4	2	4	4	4	4	4
JP-4 (MIL-J-5624)	1	4	1	4	2	2	4
JP-5 (MIL-J-5624)	1	4	1	4	2	2	4
KEROSINE	1	2	1	4	1	1	4
LACTIC ACID, COLD	1	1	1	1	4	1	X
HOT	4	4	1	4	4	2	X
LACQUERS	4	4	4	4	4	4	4
LARD, ANIMAL FAT	1	2	1	2	1	1	2
LINOLEIC ACID	2	4	2	2	X	X	2
LINSEED OIL	1	3	1	3	1	1	1
LYE SOLUTIONS	2	1	2	2	4	2	2
MALATHION	2	4	1	X	X	2	4
MALEIC ACID	4	4	1	4	4	X	X
MERCURY	1	1	1	1	X	X	X
METER-CRESOL	4	4	1	1	4	X	4

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METHANE	1	4	1	2	1	2	4
METHANOL	1	1	4	1	4	1	1
METHYL ACETATE	4	2	4	2	4	4	4
METHYLACRYLIC ACID	4	2	3	2	4	4	4
METHYL CELLOSOLVE	3	2	4	3	4	4	4
METHYL CHLORIDE	4	3	1	4	4	2	4
METHYL ETHYL KETONE (MEK)	4	1	4	4	4	4	4
MRTHYL MERCAPTAN	X	1	X	X	X	X	X
MILK	1	1	1	1	4	1	1
MINERAL OILS	1	3	1	2	1	1	2
MINERAL SPIRITS	1	4	1	4	1	X	4
MONOVINYL ACETYLENE	1	1	1	2	X	X	2
MUSTARD	X	1	1	X	X	X	1
NAPHTHA	2	4	1	4	2	2	4
NAPHTHALENE	4	4	1	4	X	1	4
NAPHTHENIC ACID	2	4	1	4	X	1	4
NATURAL GAS	1	4	1	1	2	3	1
NEATSFOOT OIL	1	2	1	4	1	1	2
NITRIC ACID							
3 MOLAR	4	2	1	4	4	3	4
CONCENTRATED	4	4	1	4	4	3	4
RED FUMING (RFNA)	4	4	2	4	4	4	4
INHIBITED RED FUMING (IRENA)	4	4	2	4	4	4	4
NITROBENZENE	4	4	2	4	4	4	4
NITROPROPANE	4	2	4	4	4	4	4
N-OCTANE	2	4	1	4	4	2	4
OCTANOL	1	1	1	1	4	X	1
OLEIC ACID	3	4	2	4	4	X	4
OLEUM (FUMING SULFURIC ACID)	4	4	1	4	4	X	4
ORONITE 8200	2	4	1	1	X	1	4
OXALIC ACID	2	1	1	2	X	1	2
PEANUT OIL	1	3	1	3	1	1	1
PENTANE, 2 METHYL	1	4	1	2	1	3	4
2-4,DIMETHYL	1	4	1	2	1	3	4
3-METHYL	1	4	1	2	1	3	4
PERCHLOROETHYLENE	2	4	1	4	4	2	4
PETROLEUM ETHER	4	4	1	4	4	X	4
PHENOL	4	4	1	4	4	2	4
PHENYLHYDRAZINE	4	4	1	4	4	X	X
PHOSPHORIC ACID							
3 MOLAR	4	1	1	3	X	2	2
CONCENTRATED	4	2	1	4	X	2	3
PINE OIL	1	4	1	4	X	1	4
POTASSIUM HYDROXIDE, 50%	2	1	4	2	4	3	3
PROPANE	1	4	1	2	1	2	4
PROPANOL	1	1	1	1	4	X	1
PROPYL ACETATE	4	2	4	4	4	4	4

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PYDRAUL 10E, 29ELT	4	1	1	4	4	4	4
30E, 50E, 65E, 90E	4	1	1	4	4	1	1
115E	4	1	1	4	4	3	4
230E, 312C, 540C	4	4	1	4	4	4	4
PYRANOL	1	4	1	1	1	X	4
PYRIDINE	4	4	4	4	4	X	4
RAPESEED OIL	2	1	1	2	2	1	4
SAE 10W30	1	4	1	2	1	X	1
SEA (SALT) WATER	1	1	X	2	4	1	1
SILICONE GREASES	1	1	1	1	1	1	3
SILVER NITRATE	2	1	1	1	1	1	1
SKELLY, SOLVENT B, C, E	1	4	1	4	X	1	X
SKYDROL	4	1	1	4	4	X	4
SKYDROL 500	4	1	4	4	4	3	3
SODIUM HYDROXIDE, 3 MOLAR	2	1	2	2	4	2	1
SOVASOL NO. 1,2 AND 3	1	4	1	2	2	1	4
NO. 73 AND 74	2	4	1	2	2	1	4
SOYBEAN OIL	1	3	1	3	1	1	1
STEARIC ACID	2	2	X	2	X	X	2
STODDARD SOLVENT	1	4	1	2	1	1	4
SUCROSE SOLUTIONS	1	1	1	2	4	1	1
SULFURIC ACID							
3 MOLAR	4	2	1	3	2	3	4
CONCENTRATED	4	4	1	4	4	4	4
TALL OIL	1	4	1	2	1	X	X
TANNIC ACID	1	1	1	2	4	X	2
10%	1	1	1	1	4	1	2
TAR,BITUMINOUS	2	4	1	3	4	1	2
TARTARIC ACID	1	2	1	2	X	1	1
TETRACHOROETHANE	4	4	1	4	4	2	X
TETRALIN	4	4	1	4	X	1	4
TIDEWATER OIL-BEEDOL	1	4	1	2	1	1	2
MULTIGEAR 140, EP LUBE	1	4	1	2	1	1	4
TOLUENE	4	4	1	4	4	2	4
TRICHLOROETHYLENE	3	4	1	4	4	2	4
TRIETHANOL AMINE	3	2	4	2	4	4	X
TURBINE OIL	1	4	1	4	1	1	4
TURPENTINE	1	4	1	4	2	2	4
UCDN 50HB 280X	1	1	1	1	X	X	1
UNIVIS J-43	1	4	1	1	1	X	4
VARNISH	2	4	1	4	4	2	4
VINEGAR	2	1	1	2	4	3	1
WATER	1	1	2	2	4	1	1
WHEAT GERM OIL	1	4	1	2	1	X	1
WHISKEY AND WINES	1	1	1	1	4	1	1
WOOD OIL	1	4	1	2	X	2	4