General Properties of Elastomers

Fluid Compatibility Table

General Properties of Elastomers

COMPATIBILITY RATING SATISFACTORY FAIR (USUALLY OK FOR STATIC SEAL) DOUBTFUL (SOMETIMES OK FOR STATIC SEAL) UNSATISFACTORY INSUFFICIENT DATA	NITRILE (NBR)	EPDM	FLUOROCARBON(VITON)	NEOPRENE	POLYACRYLATE	FLUOROSILICONE	SILICONE
ACETAMIDE	😐	😐	☹	😐	☹	☹	😐
ACETAMIDE	👍	👍	😐	👍	☹	👍	😐
ACETIC ACID,GLACIAL	😐	😐	☹	☹	☹	☹	😐
HOT, HIGH PRESS	☹	😐	☹	☹	☹	☹	😐
5%	😐	👍	👍	👍	☹	😐	👍
ACETONE	☹	👍	☹	☹	☹	☹	☹
ACETOPHENONE	☹	👍	☹	☹	☹	☹	☹
ACETYLENE	👍	👍	👍	😐	👎	👎	😐
AMMONIA,GAS,COLD	👍	👍	☹	👍	☹	☹	👍
GAS,HOT	☹	😐	☹	😐	☹	☹	👍
LIQUID (ANHYDROUS)	😐	👍	☹	👍	☹	☹	😐
AMMONIUM HYDROXIDE,							
3 MOLAR	👍	👍	😐	👍	☹	👍	👍
CONCENTRATED	☹	👍	😐	👍	☹	👍	👍
AMYLACETATE	☹	👍	☹	☹	☹	☹	☹
ANDEROL,L-774 (DI-ESTER)	😐	☹	👍	☹	😐	😐	☹
ANTI-FREEZE	👍	👍	👍	👍	☹	👎	👍
ANILINE	☹	😐	😐	☹	☹	😐	☹
ANSUL ETHER 161 OR 181	😐	😐	☹	☹	☹	😐	☹
AROCLOR,1248	😐	😐	👍	☹	☹	😐	😐
1254	☹	😐	👍	☹	☹	😐	😐
1260	👍	👎	👍	👍	☹	👍	👍
ASKAREL	😐	☹	👍	☹	☹	😐	☹
ASTM OIL NO.1	👍	☹	👍	👍	👍	👍	👍
NO.3	👍	☹	👍	☹	👍	👍	😐
ASTM REDERENCE FUEL A	👍	☹	👍	😐	😐	👍	☹
B	👍	☹	👍	☹	☹	👍	☹
C	😐	☹	👍	☹	☹	😐	☹
D	😐	☹	👍	☹	☹	👎	☹
AUTO. TRANSMISSION FLUID	👍	☹	👍	😐	👍	👎	☹
BEER	👍	👍	👍	👍	☹	👍	👍
BENZALDEHYDE	☹	👍	☹	☹	☹	☹	☹
BENZENE	☹	☹	👍	☹	☹	👍	☹
BENZINE	👍	☹	👍	😐	👍	👍	☹
BENZOIC ACID	☹	☹	👍	☹	☹	😐	☹
BENZOPHENONE	👎	😐	👍	👎	☹	👍	👎
BENZYL ALCOHOL	☹	😐	👍	😐	☹	😐	👎
BLEACH LIQUOR	☹	👍	👍	☹	☹	😐	😐
BORAX	😐	👍	👍	☹	😐	😐	😐
BORIC ACID	👍	👍	👍	👍	☹	👍	👍
BRAKE FLUID(NON-PETROLEUM)	😐	👍	☹	😐	👎	☹	😐
BROMINE	☹	☹	👍	☹	☹	😐	☹
BROMOBENZENE	☹	☹	👍	☹	☹	👍	☹
BUNKER OIL	👍	☹	👍	☹	👍	👍	😐
BUTANE	👍	☹	👍	👍	👍	👍	☹
BUTTER-ANIMAL FAT	👍	👍	👍	😐	👍	👍	😐
N-BUTYL ACETATE	☹	😐	☹	☹	☹	☹	☹

COMPATIBILITY RATING SATISFACTORY FAIR (USUALLY OK FOR STATIC SEAL) DOUBTFUL (SOMETIMES OK FOR STATIC SEAL) UNSATISFACTORY INSUFFICIENT DATA	NITRILE (NBR)	EPDM	FLUOROCARBON(VITON)	NEOPRENE	POLYACRYLATE	FLUOROSILICONE	SILICONE
BUTYLALCOHOL	👍	😐	👍	👍	☹	👍	😐
BUTYLAMINE OF N-BUTAMINE	😐	☹	☹	☹	☹	☹	😐
BUTYLCARBITOL	☹	👍	😐	😐	☹	☹	☹
BUTYLCELLOSOLVE	😐	😐	☹	😐	☹	☹	👎
BUTYRALDEHYD	☹	😐	☹	☹	☹	☹	☹
CARBITOL	😐	😐	😐	😐	☹	😐	😐
CARBITOL ACETATE	☹	☹	👍	☹	☹	👎	☹
CARBON DISULFIDE	☹	☹	👍	☹	😐	👍	👎
CARBON TETRACHLORIDE	😐	☹	👍	☹	☹	😐	☹
CARBONIC ACID	😐	👍	👍	👍	👍	👍	👍
CASTOR OIL	👍	😐	👍	👍	👍	👍	👍
CELLOSOLVE	☹	😐	☹	☹	☹	☹	☹
CHASSIS GREASE	👍	☹	😐	😐	👍	👎	☹
CHLORACETIC ACID	☹	😐	☹	☹	☹	☹	👎
CHLORACETONE	☹	👍	👍	😐	👎	👎	☹
CHLORODANE	😐	☹	👍	😐	👎	😐	☹
CHLORINE,DRY	☹	☹	👍	☹	☹	👍	☹
CHLORINE DIOXIDE	☹	😐	👍	☹	☹	😐	👎
CHLORINE DIOXIDE,8% CL	☹	☹	👍	☹	☹	😐	👎
AS NAC10 IN SOLUTION							
CHLORINE TRIFLUORIDE	☹	☹	☹	☹	☹	☹	☹
CHLORINE,WET	😐	😐	👍	☹	☹	😐	👎
CHLOROBENZOL	☹	☹	👍	☹	☹	👎	☹
CHLOROFORM	☹	☹	👍	☹	☹	😐	☹
CHLOROSULPHONIC ACID	☹	☹	☹	☹	☹	☹	☹
CHROME PLATING SOLUTIONS	☹	😐	👍	☹	☹	😐	😐
CHROMIC ACID,50%	☹	😐	👍	☹	☹	😐	😐
CITRIC ACID	👍	👍	👍	👍	👎	👍	👍
COD LIVER OIL	👍	👍	👍	😐	👍	👍	😐
COFFEE	👍	👍	👍	👍	☹	👍	👍
CORN OIL	👍	😐	👍	😐	👍	👍	👍
CREOSOTE,COAL TAR	👍	☹	👍	😐	👍	👍	☹
CREOSOTE OIL	👍	☹	👍	😐	👎	👎	😐
CREOSYLIC ACID	☹	☹	👍	☹	☹	😐	☹
CRUDE OIL	😐	☹	👍	☹	👍	😐	☹
CYCLOHEXANE	👍	☹	👍	😐	😐	👍	☹
CYCLOHEXNOL	👍	☹	👍	😐	👎	👍	☹
DECALIN	☹	☹	👍	☹	👎	👍	☹
DENATURED ALCOHOL	👍	👍	👍	👍	☹	👍	👍
DIACETONE	☹	👍	☹	☹	☹	☹	☹
DIBUTYLAMINE	☹	☹	☹	😐	☹	☹	😐
DIBUTYL PHTHALATE	☹	😐	😐	☹	☹	😐	👎
DICHLORO ANILINE	☹	☹	😐	☹	☹	👎	☹
DICHLORO BUTANE	😐	☹	👍	☹	☹	😐	☹
DIESEL OIL	👍	☹	👍	😐	👍	👍	☹
DIETHYLAMINE	😐	😐	☹	😐	☹	☹	😐
DIETHYL BENZENE	😐	☹	👍	☹	👎	👎	👎

Fluid Compatibility Table

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COMPATIBILITY RATING SATISFACTORY FAIR (USUALLY OK FOR STATIC SEAL) DOUBTFUL (SOMETIMES OK FOR STATIC SEAL) UNSATISFACTORY INSUFFICIENT DATA	NITRILE (NBR)	EPDM	FLUOROCARBON(VITON)	NEOPRENE	POLYACRYLATE	FLUOROSILICONE	SILICONE
DIETHYLENE GLYCOL	👍	👍	👍	👍	☹	👍	🙂
DIMETHYL ETHER	☹	☹	☹	🙂	😐	😐	☹
DIMETHYL FORMAMIDE	☹	👍	☹	👎	👎	👎	👍
DIMETHYL PHTHALATE	☹	👍	👍	☹	☹	👎	👎
DIMETHYL TEREPHTHALATE	☹	☹	👍	☹	☹	👎	☹
DIOCTYL PHTHALATE	☹	🙂	🙂	☹	☹	🙂	🙂
DIOXANE	☹	🙂	☹	☹	☹	☹	☹
DIPHENYL	☹	☹	👍	☹	☹	🙂	☹
DOW CORNING-550	👍	👍	👍	👍	👍	👍	😐
DOW GUARD	👍	👍	👍	👍	😐	👍	👍
DOWTHERM,A	☹	☹	👍	☹	☹	🙂	☹
E	☹	☹	👍	☹	☹	🙂	☹
ELCO 28-EP LUBRICANT	👍	☹	👍	😐	👍	👍	🙂
EPOXY RESINS	👎	👍	☹	👍	👎	👎	👎
ETHANE	👍	☹	👍	🙂	👍	🙂	☹
ETHANOL	👍	👍	😐	👍	☹	👍	👍
ETHANOL AMINE	🙂	🙂	☹	🙂	☹	☹	🙂
ETHYL ACETATE-ORGANIC ESTER	☹	🙂	☹	☹	☹	☹	🙂
ETHYL BENZENE	☹	👍	👍	☹	☹	👍	☹
ETHYL CELLULOSE	🙂	🙂	☹	🙂	☹	☹	🙂
ETHYL CHLORIDE	👍	👍	👍	👍	😐	👍	☹
ETHYL ETHER	😐	😐	☹	☹	☹	😐	☹
ETHYL FORMATE	☹	🙂	👍	🙂	👎	👍	👎
ETHYL HHEXANOL	👍	👍	👍	👍	☹	👍	🙂
ETHYL MERCAPTAN	☹	😐	☹	🙂	👎	👎	🙂
ETHYLENE CHLORIDE	☹	☹	👍	☹	☹	👎	☹
ETHYLENE OXIDE	☹	👍	☹	☹	☹	👎	☹
FORMALDEHYDE	😐	🙂	☹	😐	☹	☹	🙂
FORMIC ACID	🙂	👍	☹	👍	👎	👎	🙂
FREON 12	👍	🙂	👍	👍	👎	☹	☹
FUEL OIL	👍	☹	👍	🙂	👍	👍	☹
FURAN(FURFURAN)	☹	👎	👎	☹	☹	👎	👎
FURFURAL	☹	🙂	☹	☹	☹	👎	☹
FURFURYL ALCOHOL	☹	🙂	👎	☹	☹	☹	☹
FYRQUEL A60	☹	🙂	☹	☹	☹	☹	🙂
GALLIC ACID	🙂	🙂	👍	🙂	☹	👍	👎
GASOLINE	👍	☹	👍	☹	☹	👍	☹
GELATIN	👍	👍	👍	👍	☹	👍	👍
GLUCOSE	👍	👍	👍	👍	👎	👍	👍
GLYCERINE-GL YCEROL	👍	👍	👍	👍	☹	👍	👍
N-HEPTANE	👍	☹	👍	🙂	👍	👍	☹
N-HEXALDEHYDE	☹	👍	☹	👍	👎	☹	🙂
N-HEXANE	👍	☹	👍	🙂	👍	👍	☹
HEXANOL	👍	🙂	👍	👍	☹	👎	👍
HOME HEATING OIL	👍	☹	👍	🙂	👍	👎	👍

COMPATIBILITY RATING SATISFACTORY FAIR (USUALLY OK FOR STATIC SEAL) DOUBTFUL (SOMETIMES OK FOR STATIC SEAL) UNSATISFACTORY INSUFFICIENT DATA	NITRILE (NBR)	EPDM	FLUOROCARBON(VITON)	NEOPRENE	POLYACRYLATE	FLUOROSILICONE	SILICONE
HYDRAZINE	🙂	👍	👎	🙂	👎	👎	🙂
HYDROCHLORIC ACID,							
3 MOLAR	🙂	👍	👍	🙂	🙂	🙂	☹
CONCENTRATED	☹	😐	👍	☹	☹	😐	☹
HYDROCYANIC ACID	🙂	👍	👍	🙂	☹	🙂	🙂
HYDROGEN PEROXIDE	🙂	👍	👍	👍	☹	👍	👍
90%	☹	😐	👍	☹	☹	🙂	🙂
HTDROGEN SULFIDE DRY,COLD	👍	👍	☹	👍	☹	🙂	😐
DRY,HOT	☹	👍	☹	🙂	☹	🙂	😐
WET,COLD	☹	👍	☹	👍	☹	🙂	🙂
WET,HOT	☹	👍	☹	🙂	☹	🙂	😐
HYDROQUINONE	😐	☹	🙂	☹	☹	🙂	👎
HYPOID GEAR LUBE	👍	☹	👍	🙂	👍	👎	🙂
IODINE	🙂	🙂	👍	☹	👎	👍	👎
ISOCYANATE	👎	👎	👍	👎	👎	👎	👎
ISO OCTANE	👍	☹	👍	🙂	👍	👍	☹
ISOPHORONE(KETONE)	☹	👍	☹	☹	☹	☹	☹
ISOPAR	👍	☹	👍	👍	👍	👎	☹
ISOPROPANOL	🙂	👍	👍	🙂	☹	🙂	👍
ISOPROPYL ACETATE	☹	🙂	☹	☹	☹	☹	☹
JP-4(MIL-J-5624)	👍	☹	👍	☹	🙂	🙂	☹
JP-5(MIL-J-5624)	👍	☹	👍	☹	🙂	🙂	☹
KEROSINE	👍	☹	👍	🙂	👍	👍	☹
LACTIC ACID,COLD	👍	👍	👍	👍	☹	👍	👎
HOT	☹	☹	👍	☹	☹	🙂	👎
LACQUERS	☹	☹	☹	☹	☹	☹	☹
LARD,ANIMAL FAT	👍	🙂	👍	🙂	👍	👍	🙂
LINOLEIC ACID	🙂	☹	🙂	🙂	👎	👎	🙂
LINSEED OIL	👍	😐	👍	😐	👍	👍	👍
LYE SOLUTIONS	🙂	👍	🙂	🙂	☹	🙂	🙂
MALATHION	🙂	☹	👍	👎	👎	🙂	☹
MALEIC ACID	☹	☹	👍	☹	☹	👎	👎
MERCURY	👍	👍	👍	👍	👎	👎	👎
METER-CRESOL	☹	☹	👍	👍	☹	👎	☹
METHANE	👍	☹	👍	🙂	👍	🙂	☹
METHANOL	👍	👍	☹	👍	☹	👍	👍
METHYL ACETATE	☹	🙂	☹	🙂	☹	☹	☹
METHYLACRYLIC ACID	☹	🙂	😐	🙂	☹	☹	☹
METHYL CELLOSOLVE	😐	🙂	☹	😐	☹	☹	☹
METHYL CHLORIDE	☹	😐	👍	☹	☹	🙂	☹
METHYL ETHYL KETONE(MEK)	☹	👍	☹	☹	☹	☹	☹
MRTHYL MERCAPTAN	👎	👍	👎	👎	👎	👎	👎
MILK	👍	👍	👍	👍	☹	👍	👍
MINERAL OILS	👍	😐	👍	🙂	👍	👍	🙂
MINERAL SPIRITS	👍	☹	👍	☹	👍	👎	☹
MONOVINYL ACETYLENE	👍	👍	👍	🙂	👎	👎	🙂

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MUSTARD							
NAPHTHA							
NAPHTHALENE							
NAPHTHENIC ACID							
NAYURAL GAS							
NEATSFOOT OIL							
NITRIC ACID							
3 MOLAR							
CONCENTRATED							
RED FUMING(RFNA)							
INHIBITED RED FUMING(IRENA)							
NITROBENZENE							
NITROPROPANE							
N-OCTANE							
OCTANOL							
OLEIC ACID							
OLEUM(FUMING SULFURIC ACID)							
ORONITE 8200							
OXALIC ACID							
PEANUT OIL							
PENTANE, 2 METHYL							
2-4,DIMETHYL							
3-METHYL							
PERCHLOROETHYLENE							
PETROLEUM ETHER							
PHENOL							
PHENYLHYDRAZINE							
PHOSPHORIC ACID							
3 MOLAR							
CONCENTRATED							
PINE OIL							
POTASSIUM HYDROXIDE,50%							
PROPANE							
PROPANOL							
PROPYL ACETATE							
PYDRAUL 10E,29ELT							
30E,50E,65E,90E							
115E							
230E,312C,540C							
PYRANOL							
PYRIDINE							
RAPESEED OIL							
SAE10W30							
SEA(SALT) WATER							

COMPATIBILITY RATING SATISFACTORY FAIR (USUALLY OK FOR STATIC SEAL) DOUBTFUL (SOMETIMES OK FOR STATIC SEAL) UNSATISFACTORY INSUFFICIENT DATA	NITRILE (NBR)	EPDM	FLUOROCARBON(VITON)	NEOPRENE	POLYACRYLATE	FLUOROSILICONE	SILICONE
SILICONE GREASES							
SILVER NITRATE							
SKELLY, SOLVENT B,C,E							
SKYDROL							
SKYDROL 500							
SODIUM HYDROXIDE,3 MOLAR							
SOVASOL NO.1,2 AND 3							
NO.73 AND 74							
SOYBEAN OIL							
STEARIC ACID							
STODDARD SOLVENT							
SUCROSE SOLUTIONS							
SULFURIC ACID							
3 MOLAR							
CONCENTRATED							
TALL OIL							
TANNIC ACID							
10%							
TAR,BITUMINOUS							
TARTARIC ACID							
TETRACHOROETHANE							
TETRALIN							
TIDEWATER OIL-BEEDOL							
MULTIGEAR 140,EP LUBE							
TOLUENE							
TRICHLOROETHYLENE							
TRIETHANOL AMINE							
TURBINE OIL							
TURPENTINE							
UCDN 50HB 280X							
UNIVIS J-43							
VARNISH							
VINEGAR							
WATER							
WHEAT GERM OIL							
WHISKEY AND WINES							
WOOD OIL							