

# ELASTOMER SELECTION TABLE

E-Excellent  
G-Good  
F-Fair  
U-Unsatisfactory

Chemical agents	Metal Elastomer		Chemical agents	Metal Elastomer	
	Iron Stainless	Aluminum Nickel EPDM NBR Viton Nitril Butyl Diene		Iron Stainless	Aluminum Nickel EPDM NBR Viton Nitril Butyl Diene
Hydrochloric Acid 37% 60°F	UUUU	UUUU	Propene	FEE-	UEE-
Hydrochloric Acid 20%	UUUF	-UEU	Resins	UEE-	-EUF
Hydrochloric Acid 20-60%	UUUU	-UEU	Sea Water 70°F	UGGE	EGE-
Hydrogen	FEF-	EEEE	Soap Solution (dearate)	UEEG	EEEE
Hydrogen Peroxide 90%	UGUE	-UGU	Sodium Acetate 5%	UEEG	EGU-
Hydrogen Sulfide	FGF-	EUUU	Sodium Bisulfate	UE--	-EE-
Iodine Solution	UUUU	-UFU	Sodium Carbonate	UEGE	EEEE
Iso-octane	FEUE	UE--	Sodium Chloride 30% 180°F	VEEE	EEEE
Isopropyl Alcohol	FEUE	-GE-	Sodium Cyanide	UUU-	-EE-
sopropyl Ether	FEUE	UEEU	Sodium Fluoride 6% 60°F	U-FG	-E--
Kerosene	EEEE	UEEU	Sodium Hydroxide 50% 122°F	UGUG	EUUG
Lactic Acid 5%	UGUG	-F--	Sodium Hydroxide 50% 176°F	UGUG	GUUU
Lubricating Oil	EEEE	UEEU	Sodium Hypochlorite 5% 60°F	UGUE	GUUU
Magnesium Chloride 4%	FGFG	EEEE	Sodium Nitrate	UEGG	EG-G
Magnesium Hydroxide	FEG-	EGEG	Sodium Perborate	UE--	-GE-
Magnesium Sulfate	FEUE	EEEE	Sodium Peroxide	UEU-	EGEG
Mercuric Chloride 3%	UFUG	EE--	Sodium Phosphate 5%	UE-G	EEEE
Mercury	EEUE	EEEE	Sodium Silicate	UEGG	EEEE
Methane	UEE-	UEEU	Sodium Sulfate 70%	UEU-	-E--
Methyl Acetate	FEUE	FUUU	Sodium Sulfite	U-UG	GE--
Methyl Acetone	FEUE	GUUU	Sodium Sulfate 80% 60°F	UEGG	EEEE
Methyl Chloride	GEUE	UUUU	Steam 300°F	UEGE	EUUU
Methyl Ethyl Ketone	EEUE	UUUU	Stearic Acid 90% 200°F	UEFF	-G--
Milk (food)	UE--	EEEE	Sulphur (Molten)	UGUU	E-E-
Mineral Oil	FF--	UEEU	Sulphur Dioxide	UEFE	GUUU
Molasses (food)	UEU-	E--	Sulphur Trioxide	UE--	-UEU
Naphthalene	FEUE	UGUG	Sulfuric Acid 10%	UGUU	UEUF
Natural gas	GEUE	UEEU	Sulfuric Acid 50%	UUUU	FUEU
Nickel Chloride	UF--	E--	Sulfuric Acid 93% 70°F	UUUU	UUUU
Nitric acid less 40% 70°F	U-UU	UUUU	Sulphurous Acid 80% 100°F	UUUU	UUUU
Nitric acid more 40% 70°F	UUUU	UUUU	Tannic Acid 10% 150°F	UEG-	-UEF
Nitrobenzene	UE--	UUUU	Tar	FEUE	UUUU
Oleum	UF--	UUUU	Tartaric Acid 150°F	UEG-	-E-G
Olive Oil	-E--	GEUU	Thinner	UEEU	UUUU
Oxalic Acid	UGU-	GUGU	Toluol and Toluene	UEE-	UUUU
Oxygen 200°F	EEEE	EGEF	Tributyl Phosphate	UE--	UUUF
Oxygen 300°F	EEEE	UUUU	Trichloroethylene	-EE-	UUUU
Palmitic acid	UEG-	E--	Tricresyl phosphate	UUU-	GUUU
Perchloroethylene	FE--	UFUU	Triethanolamine	U--	GEUU
Petroleum	UGFG	UEEU	Turpentine	UEG-	UUUU
Phenol	UE-E	UUUU	Vinegar 70°F	UE--	GEUE
Phosphoric Acid 5%	UGUG	FFEF	Water-Demineralized	UEEE	EGEG
Phosphoric Acid 85% 70°F	UGU-	FFF-	Water-distilled	UEEU	EG--
Picric Acid 80%	UE-F	U--	Water Fresh	FEUE	EG-E
Potassium Cyanide	FEU-	-EE-	Water Mineral	FEUE	EG--
Potassium Hydroxide 5%	FEUE	-EE-	Water-Sewage	UEEE	EG--
Potassium Nitrate	FEFG	EEEE	Whiskey and Wines	UEGE	EE--
Potassium phosphate	UG--	-EE-	Xylene, Xylol	FEUE	UUUU
Potassium Sulfide	UE--	-E--	Zinc Chloride 5% 160°F	UFUG	EEEE
Potassium Sulfite	UE--	GF--	Zinc Sulphate 25% 180°F	UEEG	-E--