



Knight Corporation Technical Information

CHEMICAL COMPATIBILITY GUIDE GASKET, FILTER, AND HOUSING MATERIAL SELECTION A358

- ✓ RECOMMENDED*
- FAIR--SHOULD TEST*
- ☒ NOT RECOMMENDED*
- # RECOMMENDED UP TO __ ° F*
- NO DATA AVAILABLE†

	BUNA N ETHYLENE PROPYLENE		VITON		TEFLON* FLUOROCARBON		POLYESTER		POLYPROPYLENE		NYLON		CARBON STEEL 304 STAINLESS STEEL		316 STAINLESS STEEL		PVC		POLYPROPYLENE	
	GASKET MATERIAL				FILTER MEDIA				HOUSING MATERIALS											
ACETALDEHYDE	X	●	X	✓	●	✓	✓	●	✓	✓	●	✓	✓	X	120					
ACETAMIDE	✓	✓	X	✓	X	✓	✓	●	-	-	-	-	-	-	-	-	-	-	-	-
ACETIC ACID 5%	✓	✓	✓	✓	200	✓	200	X	✓	✓	70	✓	✓	70	✓					
ACETIC ACID 50%	●	✓	✓	✓	200	✓	70	X	●	✓	70	✓	✓	70	✓					
ACETIC ACID 80%	●	●	●	✓	200	✓	70	X	●	✓	70	✓	✓	70	✓					
ACETIC ACID 100%	●	●	X	✓	200	150	70	X	●	✓	X	✓	✓	X	✓					
ACETIC ANHYDRIDE	X	●	X	✓	-	✓	-	X	✓	✓	X	✓	✓	X	X					
ACETONE	X	✓	X	✓	✓	80	✓	✓	✓	✓	✓	✓	✓	X	70					
ACETOPHENONE	X	✓	X	✓	X	X	✓	200	●	✓	-	✓	✓	-	X					
ACETYL CHLORIDE	X	X	✓	✓	●	●	X	X	✓	✓	-	✓	✓	-	X					
ACETYLENE	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	70	✓	✓	70	-					
ACRYLIC ACID	-	-	-	✓	70	150	X	✓	-	✓	-	✓	✓	-	✓					
ACRYLONITRILE	X	X	70	X	70	70	70	X	✓	✓	-	✓	✓	-	70					70
ADIPIC ACID	-	-	-	-	-	✓	X	✓	✓	✓	70	✓	✓	70	-					
AIR-COMPRESSED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	70	✓	✓	70	✓					
ALUMINUM ACETATE	●	✓	X	✓	-	70	-	✓	✓	✓	70	✓	✓	70	-					
ALUMINUM AMMONIUM SULFATE	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-					✓
ALUMINUM CHLORIDE 5%	✓	✓	✓	✓	70	200	70	X	✓	✓	70	✓	✓	70	✓					
ALUMINUM FLUORIDE 5%	✓	✓	✓	✓	-	70	-	X	●	●	70	70	70	70	70					
ALUMINUM HYDROXIDE	✓	-	X	✓	✓	70	✓	✓	✓	✓	70	70	70	70	70					
ALUMINUM NITRATE	✓	✓	✓	✓	-	70	-	X	●	✓	70	70	70	70	70					
ALUMINUM SULFATE	✓	✓	✓	✓	70	180	70	✓	✓	✓	70	✓	✓	70	✓					
AMINO ACIDS	-	-	✓	✓	-	-	-	-	✓	✓	-	-	-	-	-					
AMMONIA GAS (DRY)	70	●	X	-	150	20	-	✓	✓	✓	70	✓	✓	70	✓					
AMMONIUM BICARBONATE	X	✓	X	✓	-	70	-	●	✓	✓	-	-	-	-	-					
AMMONIUM BROMIDE 10%	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-					
AMMONIUM CARBONATE 10%	X	✓	●	✓	●	180	X	●	✓	✓	70	✓	✓	70	✓					
AMMONIUM CHLORIDE 10%	✓	✓	✓	✓	70	180	X	●	✓	✓	70	✓	✓	70	✓					
AMMONIUM FLUORIDE 10%	✓	✓	-	✓	-	70	-	-	✓	✓	70	70	70	70	70					
AMMONIUM HYDROXIDE 30%	✓	✓	●	✓	70	200	100	☒	✓	✓	70	✓	✓	70	✓					
AMMONIUM NITRATE 5%	✓	✓	✓	✓	70	✓	X	●	✓	✓	70	✓	✓	70	✓					
AMMONIUM PHOSPHATE	✓	✓	✓	✓	-	140	-	X	✓	✓	70	✓	✓	70	✓					
AMMONIUM SULFATE 5%	✓	✓	X	✓	70	170	-	●	✓	✓	70	70	70	70	70					
AMMONIUM THIOCYANATE	✓	✓	-	✓	70	-	70	●	✓	✓	70	-	-	-	-					
AMYL ACETATE	X	✓	X	✓	✓	70	70	-	-	-	-	-	-	-	-					X
AMYL ALCOHOL	●	✓	●	✓	70	70	70	●	✓	✓	70	✓	✓	70	✓					
ANILINE	X	●	160	✓	70	180	70	●	✓	✓	X	✓	✓	X	✓					
AQUA REGIA	X	X	●	✓	●	75	X	X	X	X	70	●	✓	70	●					
ARSENIC ACID	✓	✓	✓	✓	-	●	X	X	✓	✓	70	✓	✓	70	X					
ASPHALT	●	X	✓	✓	-	70	-	✓	✓	✓	-	-	-	-	-					
AVIATION FUEL	✓	X	✓	✓	70	80	✓	✓	✓	✓	-	-	-	-	X					

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	BUNA N	ETHYLENE PROPYLENE	VITON	TEFLON*	FLUOROCARBO N POLYESTER	POLYPROPYLEN E	NYLON	CARBON STEEL	304 SS	316 SS	PVC	POLYPROPYLEN E
	GASKET MATERIAL				FILTER MEDIA			HOUSING MATERIALS				
BANANA OIL--AMYL ACETATE	X	✓	X	✓	70	●	70	✓	✓	✓	X	70
BARIUM CARBONATE	✓	✓	✓	✓	✓	70	✓	●	●	✓	70	-
BEER	✓	✓	✓	✓	-	✓	-	X	✓	✓	70	-
BEET SUGAR LIQUORS	✓	✓	✓	✓	-	✓	-	X	✓	✓	70	-
BENZENE	X	X	70	✓	✓	X	✓	✓	✓	✓	X	X
BROMINE (DRY)	X	X	✓	✓	X	70	X	X	X	X	X	-
BROMINE (WET)	X	X	✓	✓	X	X	X	X	X	X	80	-
BUTANE	✓	X	✓	✓	250	70	✓	✓	✓	✓	70	-
BUTANOIC ACID	-	-	-	-	-	-	✓	-	✓	✓	-	-
BUTYL ACETATE	X	✓	X	✓	✓	200	✓	●	✓	✓	70	-
BUTYL ALCOHOL	✓	●	✓	✓	100	●	✓	✓	✓	✓	70	●
BUTYL CELLOSOLVE	✓	●	X	-	-	70	-	-	✓	✓	-	-
BUTYL CHLORIDE	-	-	-	-	-	-	-	✓	✓	✓	-	-
BUTYLENE	●	X	✓	✓	-	-	70	✓	-	✓	-	-
BUTYRIC ACID	X	●	●	✓	✓	✓	X	X	✓	✓	X	✓
CALCIUM CHLORIDE	✓	✓	✓	✓	200	✓	X	✓	●	●	70	✓
CALCIUM HYDROXIDE 5%	✓	✓	✓	✓	100	200	✓	●	✓	✓	70	✓
CALCIUM HYPOCHLORITE	✓	✓	✓	✓	✓	200	●	X	X	X	70	✓
CANE SUGAR LIQUORS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	70	✓
CARBOLIC ACID (PHENOL)	X	●	✓	✓	X	70	X	●	✓	✓	70	X
CARBON DIOXIDE (DRY)	✓	●	●	✓	-	✓	100	✓	✓	✓	✓	✓
CARBON DISULFIDE	X	X	✓	✓	70	X	70	●	●	✓	X	X
CARBON TETRACHLORIDE	●	X	✓	✓	✓	100	✓	✓	✓	✓	80	70
CARBONATED WATER	✓	✓	✓	✓	-	✓	100	●	✓	✓	70	✓
CARBONIC ACID	●	✓	✓	✓	-	✓	100	●	✓	✓	70	70
CASTOR OIL	✓	●	✓	✓	-	✓	-	✓	✓	✓	70	✓
CAUSTIC POTASH	●	✓	✓	✓	-	✓	✓	●	✓	✓	70	✓
CAUSTIC SODA	●	✓	●	✓	-	✓	✓	100	✓	✓	70	✓
CELLOSOLVE	X	●	X	-	-	70	-	100	-	100	70	-
CHLORACETIC ACID	X	●	X	✓	●	70	X	●	✓	✓	70	X
CHLORINE GAS (DRY)	X	●	✓	✓	-	X	X	70	✓	✓	80	X
CHLORINE GAS (WET)	X	●	✓	✓	-	X	X	X	X	●	80	X
CHLOROBENZENE	X	X	✓	✓	200	●	200	●	✓	✓	X	70
CHLOROFORM (DRY)	X	X	✓	✓	70	70	✓	●	✓	✓	X	X
CHROMIC ACID	X	●	✓	✓	●	80	X	✓	●	✓	80	80
CIDER	●	✓	✓	✓	-	✓	-	X	✓	✓	70	✓
CITRIC ACID	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	70	●
COD LIVER OIL	✓	✓	✓	✓	-	X	-	●	✓	✓	70	X
COFFEE EXTRACT	✓	-	✓	✓	-	X	-	X	✓	✓	●	X
COLA SYRUP	-	-	-	✓	70	70	70	-	✓	✓	-	70
COPPER SULFATE	✓	✓	✓	✓	70	✓	X	X	✓	✓	70	✓
CORN OIL	✓	X	✓	✓	-	100	✓	✓	✓	✓	70	70
COTTONSEED OIL	✓	X	✓	✓	✓	100	✓	✓	✓	✓	70	70
CRESOL	-	X	✓	✓	X	✓	X	-	-	-	-	-
CREOSOTE	✓	X	✓	✓	-	X	-	✓	✓	✓	70	X
CRESYLIC ACID	X	X	✓	✓	✓	●	X	-	-	✓	70	X
CYCLOHEXANE	✓	X	✓	✓	200	X	-	✓	✓	✓	X	X
CYCLOHEXANOL	-	-	-	-	-	150	-	-	-	-	-	-
CYCLOHEXAMINE	X	●	X	✓	200	X	✓	70	-	70	X	X
DDT SOLUTION	-	-	✓	✓	-	●	-	-	●	●	-	X



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	BUNA N	ETHYLENE PROPYLENE	VITON	TEFLON*	FLUOROCARBON	POLYESTER POLYPROPYLEN	NYLON E	CARBON STEEL	304 SS	316 SS	PVC	POLYPROPYLEN E
	GASKET MATERIAL			FILTER MEDIA			HOUSING MATERIALS					
DEXTROSE	✓	✓	✓	✓	-	✓	-	✓	✓	✓	70	70
DIACETONE ALCOHOL	X	✓	X	✓	-	70	-	✓	✓	✓	X	X
DIBUTYL PHTHALATE	X	●	X	✓	-	70	-	✓	✓	✓	-	X
DICHLOROETHANE	X	X	✓	✓	-	X	-	-	✓	✓	-	-
DICHLOROETHYLENE	-	-	-	✓	-	70	70	✓	-	-	-	X
DIESEL FUEL	✓	X	✓	✓	-	120	✓	✓	✓	✓	80	120
DIETHANOLAMINE	✓	●	X	✓	✓	✓	✓	✓	-	-	-	●
DIETHYLENE GLYCOL	✓	✓	✓	✓	✓	●	✓	✓	✓	✓	-	X
DIMETHYL FORMAMIDE	X	-	-	200	200	200	200	-	70	70	-	✓
DIPHENYL OXIDE	X	X	✓	✓	-	70	-	✓	✓	✓	-	70
DOWTHERM	X	X	✓	✓	-	70	-	✓	✓	✓	-	70
EPICHLOROHYDRIN	X	●	X	✓	✓	120	✓	✓	-	✓	-	120
ETHANOL	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	-	✓
ETHANOLAMINE	●	●	X	✓	-	70	-	✓	✓	✓	-	70
ETHER	X	X	X	✓	95	●	✓	✓	✓	✓	X	●
ETHYL ACETATE	X	●	X	✓	✓	120	✓	✓	✓	✓	X	120
ETHYL CELLULOSE	●	●	X	✓	-	70	-	✓	✓	✓	-	70
ETHYL CHLORIDE (DRY)	✓	✓	✓	✓	-	X	-	200	✓	✓	X	X
ETHYLENE DIAMINE	✓	✓	X	✓	-	70	70	70	✓	70	-	70
ETHYLENE GLYCOL	✓	✓	✓	✓	✓	✓	70	✓	✓	✓	70	✓
ETHYLENE OXIDE	X	X	X	✓	-	X	-	✓	✓	✓	X	X
FATTY ACIDS	✓	●	✓	✓	✓	✓	X	X	●	✓	70	✓
FERRIC CHLORIDE 1%	✓	✓	✓	✓	200	✓	X	X	X	X	70	✓
FERRIC CHLORIDE	✓	✓	✓	✓	200	-	X	X	X	X	70	70
FERRIC NITRATE	✓	✓	✓	✓	70	-	-	-	-	✓	70	-
FERRIC SULFATE 5%	●	✓	✓	✓	70	✓	70	X	✓	✓	70	✓
FERROUS CHLORIDE	✓	-	-	✓	70	✓	70	X	-	70	-	✓
FISH OILS	✓	-	-	✓	-	70	-	●	✓	✓	70	X
FLUOSILICIC ACID	●	✓	✓	✓	-	70	-	X	-	✓	70	X
FORMALDEHYDE 10%	80	●	X	✓	✓	✓	✓	X	✓	✓	70	✓
FORMALIN 40%	X	●	X	✓	-	✓	-	X	✓	✓	70	70
FORMIC ACID (DILUTE)	●	✓	X	✓	✓	✓	X	X	●	●	70	✓
FORMIC ACID (CONC.)	●	✓	X	-	70	✓	X	X	●	●	-	-
FREON 12	●	●	✓	✓	-	X	100	✓	●	✓	X	X
FREON 22	X	✓	X	✓	-	X	100	✓	●	✓	X	X
FRUIT JUICES	✓	-	✓	✓	-	70	-	X	✓	✓	70	70
FUEL OILS	✓	X	✓	✓	✓	70	✓	✓	✓	✓	70	70
FURFURAL	X	●	X	✓	-	70	-	✓	✓	✓	X	X
GAS-NATURAL	✓	X	✓	✓	✓	70	✓	✓	✓	✓	70	70
GASOLINE--SOUR	✓	X	✓	✓	-	X	70	●	✓	✓	80	X
GASOLINE--MOTOR	✓	X	✓	✓	-	X	✓	✓	✓	✓	80	X
GASOLINE--AVIATION	✓	X	✓	✓	-	X	✓	✓	✓	✓	80	X
GELATIN	✓	✓	✓	✓	✓	✓	X	●	✓	✓	70	70
GLUCOSE	✓	✓	✓	✓	-	✓	-	✓	✓	✓	70	70
GLYCERINE--GLYCEROL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	70	70
GLYCOL	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	70	✓
GLYCOL MONOETHER	✓	✓	✓	✓	-	70	-	-	✓	✓	70	70
GREASE	✓	X	✓	✓	-	✓	-	✓	✓	✓	70	✓
GREEN SULFATE LIQUOR	●	✓	✓	✓	-	70	X	●	X	●	-	-
GUM ARABIC	-	✓	-	✓	-	-	-	-	✓	-	-	-



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	GASKET MATERIAL				FILTER MEDIA			HOUSING MATERIALS					
HELIUM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	70	
HEXANE	✓	x	✓	✓	✓	70	✓	✓	✓	✓	80	70	
HONEY	✓	✓	✓	✓	-	-	-	-	✓	✓	-	-	
HYDRAULIC OIL--PETROLEUM BASE	✓	x	✓	✓	✓	70	✓	✓	✓	✓	70	70	
HYDRAULIC OIL--PHOSPHATE ESTER	x	✓	●	✓	✓	70	✓	✓	✓	✓	-	70	
HYDRAZINE	●	✓	✓	✓	-	-	-	-	-	✓	-	-	
HYDROBROMIC ACID 10%	x	✓	✓	✓	70	150	x	✓	x	x	70	✓	
HYDROBROMIC ACID 50%	x	✓	✓	✓	-	150	x	✓	x	x	70	✓	
HYDROCHLORIC ACID 5%	160	✓	✓	✓	●	✓	x	x	x	x	✓	✓	
HYDROCHLORIC ACID 30%	70	70	70	✓	●	✓	x	x	x	x	✓	70	
HYDROCYANIC ACID 5%	●	✓	✓	✓	-	70	-	✓	✓	✓	70	70	
HYDROCYANIC ACID	●	✓	✓	✓	-	70	-	✓	✓	✓	70	70	
HYDROFLUORIC ACID 10%	80	70	-	✓	x	✓	x	x	x	x	80	✓	
HYDROFLUORIC ACID 50%	-	-	✓	✓	-	70	x	x	x	x	-	70	
HYDROGEN GAS	✓	✓	✓	✓	-	●	-	✓	✓	✓	70	●	
HYDROGEN PEROXIDE 5%	●	✓	✓	✓	●	150	●	x	✓	✓	70	140	
HYDROGEN PEROXIDE 30%	x	●	✓	✓	●	70	●	x	✓	✓	70	70	
HYDROGEN SULFIDE (DRY)	70	✓	x	✓	-	70	-	●	✓	✓	80	70	
HYDROGEN SULFIDE (WET)	x	✓	x	✓	-	✓	-	x	✓	●	70	✓	
HYDROQUINONE	x	x	●	✓	70	70	-	-	✓	✓	70	70	
INSULATING OIL	✓	x	✓	✓	-	-	-	✓	✓	✓	-	-	
IODINE	●	●	✓	✓	●	✓	x	x	✓	✓	x	70	
ISOPROPYL ACETE	x	●	x	✓	-	-	-	-	-	●	-	-	
ISOPROPYL ALCOHOL	●	✓	✓	✓	70	✓	-	✓	✓	✓	70	✓	
KEROSENE	✓	x	✓	✓	✓	70	✓	✓	✓	✓	70	70	
KETCHUP	✓	-	✓	✓	-	70	-	-	●	●	-	70	
LACTIC ACID	70	70	✓	✓	70	✓	70	-	x	x	70	✓	
LARD OIL	✓	●	✓	✓	✓	80	✓	x	✓	✓	70	80	
LATEX (NATURAL)	✓	-	✓	✓	-	70	-	✓	✓	✓	-	70	
LEAD ACETATE	●	✓	x	✓	✓	✓	✓	x	✓	✓	70	70	
LIME-SULFUR	x	✓	✓	✓	-	70	-	-	✓	✓	-	70	
LINOLEIC ACID	●	x	●	✓	-	✓	x	x	●	✓	70	✓	
LINSEED OIL	✓	x	✓	✓	✓	✓	✓	●	✓	✓	70	100	
LITHIUM BROMIDE	-	-	-	✓	-	70	-	✓	-	✓	-	70	
LITHIUM CARBONATE	✓	-	-	✓	-	70	-	-	-	-	-	70	
LITHIUM CHLORIDE	✓	x	-	-	✓	✓	✓	✓	✓	✓	-	70	
LITHIUM HYDROXIDE	✓	✓	-	-	-	✓	x	✓	✓	✓	-	✓	
LUBE OIL	✓	✓	✓	✓	-	70	✓	✓	✓	✓	70	70	
LYE	●	✓	●	✓	x	✓	✓	130	✓	✓	70	✓	
MAGNESIUM CHLORIDE	✓	✓	✓	✓	70	180	70	x	●	✓	70	✓	
MAGNESIUM HYDROXIDE	●	✓	✓	✓	-	✓	-	●	●	✓	70	✓	
MAGNESIUM SULFATE	✓	✓	✓	✓	-	180	-	✓	✓	✓	70	70	
MAYONNAISE	✓	-	✓	✓	-	70	-	x	●	✓	-	70	
MELAMINE RESINS	✓	-	✓	✓	-	70	-	-	x	x	-	70	
MERCURIC CHLORIDE 10%	✓	✓	✓	✓	70	70	-	x	x	●	70	70	
MERCUROUS NITRATE	●	✓	-	✓	-	70	-	✓	✓	✓	70	70	
MERCURY	✓	✓	✓	✓	70	70	70	✓	✓	✓	70	70	
METHANE	✓	x	✓	✓	-	70	-	✓	✓	✓	70	70	
METHYLENE CHLORIDE	x	x	●	✓	100	x	100	100	150	212	x	x	
METHYL ALCOHOL	✓	✓	x	✓	✓	✓	✓	✓	✓	✓	70	✓	



Although the information contained in this bulletin is accurate to the best of our knowledge, the Knight Corporation makes no guarantee as to the results that may be obtained and assumes no obligation or responsibility because of this information.

- ✓ RECOMMENDED*
- FAIR--SHOULD TEST*
- ☒ NOT RECOMMENDED*
- # RECOMMENDED UP TO __ ° F*
- NO DATA AVAILABLE

	GASKET MATERIAL				FILTER MEDIA			HOUSING MATERIALS				
	BUNA N	ETHYLENE PROPYLENE	VITON	TEFLON*	FLUOROCARBON	POLYESTER	POLYPROPYLENE	NYLON	CARBON STEEL	304 SS	316 SS	PVC
METHYL ACETATE	X	●	X	✓	✓	70	✓	●	✓	✓	-	70
METHYL CELLOSOLVE	X	●	X	✓	-	70	-	✓	●	●	X	70
METHYL CHLORIDE	X	X	✓	✓	70	✓	X	✓	X	✓	X	70
METHYL ETHYL KETONE	X	✓	X	✓	✓	●	✓	✓	✓	✓	X	X
MILK	✓	✓	✓	✓	-	70	-	✓	✓	✓	70	70
MINERAL OIL	✓	X	✓	✓	200	70	200	●	✓	✓	70	70
MOLASSES	✓	-	✓	✓	-	70	-	✓	✓	✓	70	70
MONOETHANOLAMINE	X	●	X	✓	-	70	-	✓	✓	✓	-	70
MUSTARD	✓	-	✓	✓	-	70	-	X	●	●	-	70
NAPHTHA	●	X	✓	✓	200	70	200	✓	✓	✓	70	70
NAPHTHALENE	X	X	✓	✓	70	70	70	✓	✓	✓	X	X
NICKEL CHLORIDE	✓	✓	✓	✓	70	200	X	X	X	X	70	100
NICKEL SULFATE	✓	✓	✓	✓	-	✓	X	X	✓	✓	70	✓
NITRIC ACID 10%	X	●	70	✓	●	210	X	X	✓	✓	70	100
NITRIC ACID 20%	X	X	70	✓	●	180	X	X	●	212	70	70
NITRIC ACID 50%	X	X	70	✓	●	70	X	X	212	212	70	70
NITRIC ACID FUMING	X	X	●	✓	X	X	X	X	125	125	X	X
NITROBENZENE 10%	X	X	●	✓	200	●	200	●	✓	✓	X	X
NITROBENZENE	X	X	●	✓	200	●	200	●	✓	✓	X	X
NITROGEN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓
OIL, CRUDE	●	X	✓	✓	✓	70	✓	✓	✓	✓	70	70
OLEIC ACID 5%	X	X	●	✓	-	180	X	X	X	✓	70	70
OLEIC ACID	X	X	●	✓	150	120	X	X	X	✓	X	X
OLEUM	X	X	✓	✓	-	X	X	X	●	✓	X	X
OLIVE OIL	✓	●	✓	✓	-	70	-	●	✓	✓	70	70
OXALIC ACID 5%	●	✓	✓	✓	●	180	70	-	✓	✓	70	✓
PALM OIL	✓	-	✓	✓	-	70	-	X	✓	✓	-	70
PENTANE	✓	X	✓	✓	-	70	✓	✓	✓	✓	80	70
PERCHLOROETHYLENE (DRY)	●	X	✓	✓	200	●	200	✓	✓	✓	70	X
PETROLEUM ETHER	●	X	✓	✓	✓	70	✓	✓	✓	✓	70	70
PETROLEUM OIL--REFINED	✓	X	✓	✓	✓	70	✓	✓	✓	✓	70	70
PETROLEUM OIL--SOUR	●	X	X	✓	✓	70	✓	X	✓	✓	70	70
PHENOL	X	●	✓	✓	●	190	X	●	✓	✓	70	X
PHENOL-FORMALDEHYDE RESIN	-	●	-	✓	-	-	-	✓	✓	✓	-	-
PHOSPHORIC ACID 1%	✓	✓	✓	✓	210	210	✓	X	212	✓	70	✓
PHOSPHORIC ACID 10%	✓	✓	✓	✓	210	210	70	X	212	✓	70	✓
PHOSPHORIC ACID 50%	70	✓	✓	✓	●	180	X	X	212	✓	70	✓
PHOSPHORIC ACID 80%	70	✓	✓	✓	●	180	X	X	X	●	70	✓
PICRIC ACID--H2O SOLUTION	✓	✓	✓	✓	-	120	-	X	✓	✓	X	120
PINE OIL	✓	X	✓	✓	70	70	70	●	✓	✓	-	70
PLATING SOLUTIONS												
--ARSENIC	✓	✓	✓	✓	-	150	-	✓	-	✓	-	150
--BRASS CYANIDE	✓	✓	-	✓	-	✓	-	✓	✓	-	70	✓
--BRONZE CYANIDE	✓	✓	✓	✓	-	70	-	✓	-	-	70	70
--CADMIUM CYANIDE	✓	✓	✓	✓	-	✓	-	✓	✓	✓	70	✓
--CADMIUM FLUOBORATE	✓	✓	✓	✓	-	70	-	-	X	✓	70	70
--COPPER CYANIDE	✓	✓	✓	✓	-	✓	-	✓	✓	✓	70	✓
--GOLD CYANIDE	✓	✓	✓	✓	-	✓	-	-	✓	✓	X	✓
--IRON CHLORIDE	X	✓	✓	✓	-	✓	✓	-	X	✓	X	✓



- ✓ RECOMMENDED*
- FAIR--SHOULD TEST*
- ☒ NOT RECOMMENDED*
- # RECOMMENDED UP TO __ ° F*
- NO DATA AVAILABLE*

	GASKET MATERIAL				FILTER MEDIA				HOUSING MATERIALS			
	BUNA N	ETHYLENE PROPYLENE	VITON	TEFLON*	FLUOROCARBON	POLYESTER	POLYPROPYLENE	NYLON	CARBON STEEL	304 SS	316 SS	PVC
---IRON SULFATE	✓	✓	✓	✓	-	140	140	✓	-	✓	x	140
---LEAD ALKALI	✓	✓	✓	✓	-	✓	✓	✓	-	✓	70	✓
---LEAD FLUOBORATE	✓	✓	✓	✓	-	-	100	-	✓	✓	70	-
---NICKEL BRIGHT CHLORIDE	✓	✓	✓	✓	-	70	-	-	✓	✓	70	70
---NICKEL DULL CHLORIDE	-	✓	✓	✓	-	-	-	-	✓	✓	70	-
---NICKEL DULL FLUOBORATE	✓	✓	✓	✓	-	x	170	-	-	✓	x	x
---SILVER	✓	✓	✓	✓	-	80	-	✓	✓	✓	70	80
---TIN ACID	✓	✓	✓	✓	-	70	70	-	-	-	80	70
---TIN FLUOBORATE	✓	✓	✓	✓	-	100	100	-	✓	✓	80	100
---ZINC CYANIDE	✓	✓	✓	✓	-	100	-	✓	✓	✓	70	100
---ZINC FLUOBORATE	-	✓	✓	✓	-	-	130	-	-	✓	70	-
POTASSIUM ACETATE 10%	●	✓	x	✓	-	70	-	x	✓	✓	-	70
POTASSIUM BISULFATE 10%	-	-	-	✓	✓	70	●	-	x	✓	-	70
POTASSIUM CARBONATE 10%	✓	✓	✓	✓	●	180	✓	●	✓	✓	✓	●
POTASSIUM CHLORIDE 5%	✓	✓	✓	✓	70	180	-	x	✓	✓	70	●
POTASSIUM CHROMATE 10%	✓	●	✓	✓	-	70	-	-	✓	✓	70	70
POTASSIUM CYANIDE 5%	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	70	✓
POTASSIUM FERROCYANIDE 10%	●	✓	✓	✓	-	70	-	✓	✓	✓	70	70
POTASSIUM PERMANGANATE 5%	✓	✓	✓	✓	●	150	x	●	✓	✓	70	70
POTASSIUM SULFATE 5%	✓	✓	✓	✓	120	180	120	✓	✓	✓	70	●
PROPANE	✓	x	✓	✓	250	100	200	✓	✓	✓	80	100
PROPIONIC ACID	-	✓	-	✓	✓	70	✓	x	x	✓	-	70
PROPYLENE GLYCOL	✓	✓	✓	✓	x	70	✓	●	✓	✓	-	70
PROPYLENE OXIDE	x	●	x	✓	-	70	-	-	-	-	-	70
PYRIDENE	x	●	x	-	✓	●	●	✓	✓	✓	-	x
SEA WATER	✓	✓	●	✓	210	✓	240	x	x	x	x	✓
SHELLAC	✓	✓	-	✓	-	70	-	✓	✓	✓	-	70
SILVER NITRATE	●	✓	✓	✓	●	✓	●	x	✓	✓	70	✓
SODA ASH	✓	✓	✓	✓	70	70	✓	●	✓	✓	70	70
SODIUM ACETATE	●	✓	x	✓	✓	✓	✓	x	✓	✓	70	✓
SODIUM BICARBONATE	✓	✓	✓	✓	-	✓	-	✓	✓	✓	70	✓
SODIUM BISULFATE	✓	✓	✓	✓	70	150	x	x	x	✓	70	70
SODIUM BISULFITE	✓	✓	✓	✓	✓	180	●	x	-	100	-	70
SODIUM BORATE	✓	✓	✓	✓	-	70	-	x	✓	✓	70	70
SODIUM CARBONATE	✓	✓	✓	✓	●	✓	✓	●	✓	✓	70	70
SODIUM CHLORATE	✓	-	✓	✓	-	180	-	-	✓	✓	70	120
SODIUM CHLORIDE 10%	✓	✓	✓	✓	✓	✓	✓	●	●	●	70	✓
SODIUM CYANIDE	✓	✓	x	✓	✓	✓	●	●	✓	✓	70	✓
SODIUM FLUORIDE 5%	✓	✓	✓	✓	-	70	-	x	●	✓	70	x
SODIUM HYDROXIDE 5%	●	✓	●	✓	70	✓	✓	●	✓	✓	70	70
SODIUM HYDROXIDE 20%	●	✓	●	✓	x	✓	✓	●	✓	✓	70	✓
SODIUM HYDROXIDE 40%	●	●	●	✓	x	✓	✓	●	✓	✓	70	70
SODIUM HYPOCHLORITE 5%	●	✓	✓	✓	●	120	●	x	●	✓	70	70
SODIUM METAPHOSPHATE	✓	✓	✓	✓	-	70	-	●	x	✓	70	70
SODIUM NITRATE 5%	●	✓	-	✓	70	180	70	✓	✓	✓	70	70
SODIUM PERBORATE 1%	●	✓	✓	✓	160	180	-	●	✓	✓	70	✓
SODIUM PEROXIDE	●	✓	✓	✓	x	70	-	x	✓	✓	70	70
SODIUM PHOSPHATE	✓	✓	✓	✓	70	180	✓	x	✓	✓	120	✓
SODIUM POLYSULFIDE	-	-	-	✓	-	-	-	-	✓	✓	-	-
SODIUM SILICATE	✓	✓	✓	✓	-	180	-	✓	✓	✓	70	✓



- ✓ RECOMMENDED*
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	BUNA N	ETHYLENE PROPYLENE	VITON	TEFLON*	FLUOROCARBON	POLYESTER	POLYPROPYLENE	NYLON	CARBON STEEL	304 SS	316 SS	PVC	POLYPROPYLENE
	GASKET MATERIAL				FILTER MEDIA			HOUSING MATERIALS					
SODIUM SULFATE	✓	✓	✓	✓	70	180	70	●	✓	✓	70	✓	
SODIUM SULFIDE	✓	✓	✓	✓	✓	180	✓	✓	●	✓		x	x
SODIUM THIOCYANATE	-	-	-	✓	70	70	70	✓	✓	✓	70	70	
SODIUM THIOSULFATE	●	✓	✓	✓	70	180	-	●	✓	✓	70	✓	
SOYBEAN OIL	✓	x	✓	✓	-	100	✓	●	✓	✓	70	100	
STANNIC CHLORIDE 5%	✓	✓	✓	✓	70	70	70	x	x	x	70	70	
STANNOUS CHLORIDE 5%	✓	✓	✓	✓	70	70	70	x	x	✓	70	70	
STARCH	✓	✓	✓	✓	-	✓	-	x	✓	✓	70	70	
STEAM	-	✓	-	✓	-	220	240	●	✓	✓	x	✓	
STEACATES	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	70	✓	
STEARIC ACID	●	●	-	✓	-	✓	x	x	✓	✓	70	✓	
STODDARD SOLVENT	✓	x	✓	✓	70	70	70	●	●	●	x	70	
SUCROSE SOLUTIONS	✓	✓	✓	✓	-	✓	-	x	✓	✓	70	70	
SULFATE LIQUORS	●	●	✓	✓	-	70	x	-	x	●	70	x	
SULFUR DIOXIDE (DRY)	x	✓	x	✓	-	✓	x	●	✓	✓	70	✓	
SULFUR TRIOXIDE (DRY)	x	●	✓	✓	-	✓	x	●	✓	✓	70	✓	
SULFURIC ACID 5%	●	✓	✓	✓	150	✓	x	x	●	✓	70	✓	
SULFURIC ACID 50%	x	x	✓	✓	70	180	x	x	x	●	70	70	
SULFURIC ACID 96%	x	x	✓	✓	x	70	x	✓	●	✓	x	70	
SULFURIC ACID FUMING	x	x	✓	✓	x	x	x	x	●	✓	x	x	
SULFUROUS ACID	●	●	✓	✓	-	✓	x	x	x	x	70	✓	
TANNIC ACID 10%	✓	✓	✓	✓	70	✓	70	x	✓	✓	70	✓	
TARTARIC ACID	✓	●	✓	✓	-	150	-	●	●	✓	70	70	
TETRACHLOROTEYLENE (DRY)	x	x	✓	✓	-	x	212	✓	✓	✓	x	x	
TETRACHLOROETHANE	x	x	✓	-	70	70	70	75	✓	✓	70	70	
TETRAHYDROFURAN	x	●	x	✓	-	70	100	x	✓	✓	x	70	
TOLUENE	x	x	✓	✓	70	120	✓	✓	✓	✓	x	120	
TRANSFORMER OIL	✓	x	✓	✓	-	120	-	✓	✓	✓	70	120	
TRICHLOROETHYLENE (DRY)	x	x	✓	✓	70	x	70	✓	✓	✓	x	x	
TRIETHANOLAMINE	●	●	x	✓	70	70	-	●	✓	✓	x	70	
TRISODIUM PHOSPHATE	✓	✓	-	✓	70	120	70	-	✓	✓	70	120	
TUNG OIL	✓	x	✓	✓	-	70	-	✓	✓	✓	-	70	
TURPENTINE	✓	x	✓	✓	70	70	✓	✓	✓	✓	80	70	
UREA-FORMALDEHYDE RESIN	-	-	-	✓	-	-	-	✓	-	-	-	-	
VANILLA EXTRACT	-	-	-	✓	-	✓	-	-	✓	✓	-	70	
VARNISH	●	x	✓	✓	-	x	✓	✓	✓	✓	-	x	
VEGETABLE OILS	✓	x	✓	✓	-	100	x	✓	✓	✓	-	100	
VINEGAR	●	✓	✓	✓	-	150	x	x	✓	✓	70	✓	
WATER--FRESH	✓	✓	●	✓	210	✓	240	✓	✓	✓	70	✓	
WATER--SALT	✓	✓	●	✓	210	✓	240	x	x	✓	70	✓	
WAXES	-	-	✓	✓	-	70	-	✓	✓	✓	-	x	
WHISKEY	✓	✓	✓	✓	-	70	x	x	✓	✓	70	70	
WINE	✓	✓	✓	✓	-	70	x	x	✓	✓	70	70	
XYLENE	x	x	✓	✓	✓	x	✓	✓	✓	✓	x	x	
ZINC BROMIDE	✓	-	-	✓	-	✓	x	-	-	✓	-	✓	
ZINC CYANIDE	✓	-	-	-	-	✓	✓	x	✓	✓	-	✓	
ZINC SULFATE	✓	✓	✓	✓	✓	✓	●	x	✓	✓	70	✓	

NOTES

- * ✓ RECOMMENDED UP TO THE MAXIMUM TEMPERATURE OF THE MATERIAL IN ° F--FOR MOST CONDITIONS.
- FAIR. MAY BE ACCEPTABLE, BUT TESTING IS RECOMMENDED.
- x NOT RECOMMENDED.
- # MATERIAL RECOMMENDED UP TO TEMPERATURE IN ° F THAT HAS BEEN PROVIDED.
- NO DATA AVAILABLE. CUSTOMER TESTING IS REQUIRED.

