

RESISTENZTABEL

General Chemical Compatibility of Elastomers

LEGEND:

	CR Neoprene® -20°C / +100°C	EPDM -35°C / +130°C EPDM HT -30°C / +145°C	NBR Buna-n® -25°C / +100°C	MQ Silicone -60°C / +190°C	FKM Viton® -20°C / +200°C	FFKM Kalrez® -20°C / +315°C	PTFE -55°C / +190°C	
Acids (Concentrated)	C	C	C	C	A-B	A	A	A Excellent
Acids (Diluted)	B-C	B	C	C	A	A	A	B Good
Alcohols	A	B	A	B	A	A	A	C Poor Not Rec.
Aliphatic Hydrocarbons	B	C	A	C	A	A	A	- No data available
Alkalis	A-B	A	B	A-C	C	A	A	
Aromatic Hydrocarbons	C	C	B-C	C	A	A	A	
Fireproof Hydraulic Fluids	B	A	C	C	C	A	A	
Gasoline (High Octane)	C	C	A-B	C	A	A	A	
Halogenated Solvents	C	C	C	C	B	B	A	
Hydraulic Oils	B	C	A	B-C	A	A	A	
Kerosene	B	C	A	C	A	A	A	
Ketones	C	A	C	C	C	A	A	
Lubricant and Fuel Oils	B	C	A	C	A	A	A	
Vegetable Oils, Animals Fats	B-C	B-C	A	A-C	A	A	A	
Water (> 80°C)	C	A	A	A	A	A	A	

LEGEND: A Excellent B Good C Poor Not Recommended - No data available	METALS											COATING		SEATS									
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS			630 SS	HASTELLOY C	TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)	NATURAL RUBBER			FKM (VITON)	FFKM (KALREZ)	PTFE	
				304 SS	316 SS												MQ (SILICONE)						
Acetaldehyde	Conc.	B	C	B	A	A	-	A	A	A	C	B	-	B	C	C	C	C	C	C	C	A	A
Acetamide	-	A	B	A	B	A	A	-	-	-	A	A	-	B	B	B	C	-	-	B*	A	A	A
Acetic Acid	25%	C	C	A	B	A	A	A	A	B	C	-	100	A	C	A	B	B	B	B*	A	A	A
Acetic Acid	50%	C	C	A	-	A	A	A	A	B	C	-	100	A	C	C	-	B	C	-	A	A	A
Acetic Acid	85%	C	C	A	C	A	A	A	A	B	C	-	150	A	C	C	C	B	C	C	C	A	A
Acetic Acid	Glacial	C	C	C	C	A	B	A	A	B	C	C	100	A	C	C	B	B	C	C	C	A	A
Acetic Anhydride	-	C	C	C	B	B	B	A	A	A	C	B	25	C	C	B	B	B	C	A	A	A	A
Acetone	-	A	B	A	A	A	A	A	A	A	A	-	50	A	C	B	C	C	C	C	A	A	A
Acetonitrile	-	-	-	B	-	B	-	-	-	-	-	A	-	-	-	-	-	-	-	C	-	A	A
Acetophenone	-	C	C	C	-	C	-	B	-	-	C	-	50	B	C	C	C	C	C	C	-	A	A
Acetyl Chloride	-	C	A	-	A	A	A	A	-	-	A	-	-	C	C	C	C	C	C	A	A	A	A
Acetylene	100%	A	A	-	A	A	A	A	-	A	C	A	50	B	A	B	B	C	C	A	A	A	A
Acetylsalicylic Acid	-	-	-	C	-	B	-	B	-	-	-	A	-	-	-	-	-	-	-	A	-	A	A
Acrylonitrile	-	A	A	A	B	B	A	A	-	-	A	A	25	C	C	B	C	C	C	C	A	A	A
Adipic Acid	Sat'd.	C	B	-	A	B	-	A	-	-	-	-	50	A	B	C	A	-	-	B*	A	A	A
Allyl Alcohol	96%	A	A	A	-	A	A	-	-	A	A	-	-	B	B	B	-	-	-	B	-	A	A
Allyl Chloride	-	-	C	-	-	-	-	-	-	-	-	-	150	C	B	C	-	-	-	C	-	A	A
Aluminum Acetate	Sat'd.	C	-	-	-	A	-	-	-	-	C	-	-	A	C	C	-	-	-	C	-	A	A
Aluminum Ammonium Sulfate	Sat'd.	-	C	B	-	A	-	-	-	-	B	-	-	B	B	C	-	-	-	A	-	A	A
Air-Ozone mix	-	-	C	B	-	A	-	-	-	-	C	C	150	A	C	B	C	A	A	A	-	A	A
Alum	-	-	C	C	-	B	-	-	-	C	B	A	150	A	B	A	A	B	A	A	-	A	A
Aluminum Chloride (Aqueous)	Sat'd.	C	A	C	B	B	C	A	B	A	C	A	150	A	A	A	A	B	A	A	A	A	A
Aluminum Fluoride	Sat'd.	C	C	C	C	C	C	B	A	-	C	A	150	A	B	A	B	B	A	A	A	A	A
Aluminum Hydroxide	Sat'd.	B	C	B	B	C	A	B	C	-	C	A	150	A	A	A	C	A	A	A	A	A	A
Aluminum Nitrate	Sat'd.	C	C	-	A	A	A	-	A	-	C	A	150	A	A	A	A	C	A	A	A	A	A
Aluminum Potassium Sulfate	Sat'd.	-	C	B	C	A	-	C	A	-	B	-	-	B	B	A	A	A	A	A	A	A	A
Aluminum Sulfate	Sat'd.	C	C	C	B	B	B	B	A	B	C	A	150	B	B	A	A	A	A	A	A	A	A
Ammonia Gas	100%	-	B	-	A	A	A	B	C	A	-	-	150	A	B	A	C	C	C	C	A	A	A
Ammonia Liquid	100%	-	A	A	B	B	A	B	A	A	C	-	150	A	C	A	C	-	-	C	-	A	A
Ammonium Acetate	Sat'd.	-	-	-	B	A	-	-	-	-	C	A	50	A	A	A	-	-	-	C	A	A	A
Ammonium Bifluoride	Sat'd.	C	C	C	C	C	B	B	-	-	-	-	150	A	B	C	-	-	-	A	A	A	A
Ammonium Bromide	8%	-	C	C	-	C	-	A	-	-	C	-	-	A	-	-	-	-	-	-	-	A	A
Ammonium Carbonate	Sat'd.	-	B	B	B	B	B	A	A	-	C	A	150	A	B	B	A	C	A	A	A	A	A
Ammonium Chloride	Sat'd.	C	A	C	B	B	C	B	B	B	C	-	150	A	B	A	A	B	A	A	A	A	A
Ammonium Fluoride	10%	-	C	-	-	C	-	-	-	-	-	-	150	A	B	B	-	-	-	A	-	A	A
Ammonium Fluoride	25%	-	C	C	-	C	-	A	-	-	C	A	150	A	B	A	A	A	A	A	-	A	A
Ammonium Hydroxide	10%	-	C	B	-	A	A	-	-	B	-	-	150	B	A	A	-	-	-	B*	-	A	A
Ammonia Hydroxide	Sat'd.	-	C	B	B	B	-	B	A	-	C	A	150	B	C	A	A	C	A	B*	A	A	A
Ammonium Nitrate	Sat'd.	-	C	C	B	A	A	B	A	C	C	A	150	B	A	B	C	C	C	A	A	A	A
Ammonium Persulphate	-	C	C	B	A	A	-	B	A	-	C	-	50	B	C	A	A	C	A	A	-	A	A



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Notes:

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LEGEND:	METALS										COATING		SEATS									
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS	304 SS	316 SS	630 SS	HASTELLOY C	TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)	NATURAL RUBBER	MQ (SILICONE)	FKM (VITON)	FFKM (KALREZ)	PTFE	
A Excellent																						
B Good																						
C Poor Not Recommended																						
- No data available																						
Ammonium Phosphate (Monobasic)	-	B	C	A	B	C	A	B	A	B	C	A	150	B	A	A	A	A	A	A	A	A
Ammonium Sulfate	-	B	C	B	B	B	B	B	A	A	C	B	150	A	A	A	A	A	B*	A	A	A
Ammonium Sulfide	Dilute	C	C	A	-	B	-	A	-	C	C	A	150	B	B	A	A	B	B*	-	A	A
Ammonium Thiocyanate	50 - 60%	C	C	-	-	A	A	-	-	-	C	-	-	B	B	B	-	-	A	-	-	-
Amyl Acetate	-	B	C	A	B	A	A	A	A	A	B	A	50	A	C	C	C	C	C	A	A	A
Amyl Alcohol	-	B	B	A	A	A	A	A	B	A	A	A	150	B	B	A	B	C	B*	A	A	A
Amyl Chloride	-	A	A	A	A	B	A	A	C	-	A	A	150	C	C	C	C	C	A	A	A	A
Aniline	-	B	A	A	A	A	A	B	C	B	C	B	100	B	C	C	C	B	A	A	A	A
Aniline Hydrochloride	Sat'd.	C	C	C	C	C	C	C	A	-	C	-	-	B	C	C	A	C	B*	A	A	A
Antimony Trichloride	Sat'd.	C	C	C	C	C	C	-	B	-	C	-	25	C	A	B	-	-	A	A	A	A
Aqua Regia (Nitrohydrochloric Acid)	-	C	C	C	C	C	-	C	A	-	C	-	100	C	C	C	C	C	B	A	A	A
Argon	Dry	-	A	-	-	A	A	-	-	-	A	-	-	B	A	B	-	-	A	-	A	A
Arsenic Acid	80%	C	C	B	B	A	B	B	B	-	C	A	150	B	B	A	B	A	A	A	A	A
Asphalt	-	A	B	A	B	A	A	A	-	A	A	-	-	C	B	C	C	C	A	-	A	A
Barium Carbonate	Sat'd.	B	B	A	C	B	A	A	A	-	A	-	150	B	A	B	A	A	A	A	A	A
Barium Chloride	Sat'd.	B	C	B	B	A	-	B	A	-	A	A	150	B	B	A	A	A	A	A	A	A
Barium Hydroxide	Sat'd.	B	C	A	C	A	A	A	B	-	C	A	150	B	B	A	A	A	A	A	A	A
Barium Nitrate	Sat'd.	A	C	-	C	A	-	-	A	-	C	-	25	A	A	A	A	B	A	A	A	A
Barium Sulfate	Sat'd.	B	A	A	C	B	A	A	B	-	B	A	150	B	B	A	A	A	A	A	A	A
Barium Sulfide	Sat'd.	B	C	A	C	A	A	A	A	A	C	A	150	B	B	A	A	B	A	A	A	A
Beer	-	C	C	A	A	A	A	A	B	A	A	A	50	A	B	A	A	A	A	A	A	A
Beet Sugar Liquors	-	B	B	-	A	A	A	-	A	-	A	-	50	B	A	A	A	A	A	A	B	B
Benzaldehyde	10%	C	A	A	B	B	A	A	A	-	A	-	50	A	C	C	C	C	C	A	B	B
Benzene	-	A	A	A	B	A	A	A	A	A	A	B	50	C	C	C	C	C	B*	A	A	A
Benzene Sulfonic Acid	10%	C	C	B	B	B	B	B	B	-	B	-	50	C	C	A	A	C	A	A	-	-
Benzoic Acid	-	C	C	A	B	B	A	C	A	A	C	B	120	C	C	B	C	B	A	A	A	A
Benzyl Alcohol	-	B	B	A	B	A	A	A	A	A	A	C	150	C	C	C	C	B	A	-	A	A
Benzyl Chloride	-	-	C	C	C	C	-	C	-	-	B	A	-	C	C	C	C	C	A	A	A	A
Black Liquor	Sat'd.	B	B	B	-	A	B	-	-	-	C	-	150	A	A	A	-	-	A	-	A	A
Blood	-	C	-	-	-	A	A	-	-	-	B	-	-	A	C	A	-	-	A	-	A	A
Borax (Sodium Borate)	Sat'd.	A	B	A	A	A	A	A	B	A	A	A	150	A	B	A	B	B	A	A	A	A
Boric Acid	Sat'd.	C	B	B	B	B	B	A	A	A	B	A	150	B	B	A	A	A	A	A	A	A
Brine	Sat'd.	C	C	B	-	A	B	A	-	-	A	-	150	B	B	B	C	-	A	-	A	A
Bromic Acid	-	-	C	C	-	C	-	C	-	-	C	C	100	A	C	B	C	C	A	-	A	A
Bromine	Liquid	C	C	C	-	C	C	A	-	-	C	C	50	C	C	C	C	C	A	-	A	A
Bromine	25%	C	C	C	-	C	C	A	-	-	C	C	50	C	C	C	C	C	A	-	A	A
Bromine Water	Sat'd.	C	C	C	-	C	-	C	-	-	C	C	100	C	C	C	C	C	A	-	A	A
Butadiene	50%	A	A	A	A	B	A	A	-	-	A	-	100	C	C	C	C	C	C*	A	C	C
Butane	50%	A	A	A	A	A	A	A	A	A	A	A	100	C	B	A	C	C	A	A	A	A
Butter	-	-	C	B	C	A	-	A	-	-	-	A	-	A	A	B	B	B	A	A	A	A
Butyl Acetate	-	B	B	A	-	A	A	B	-	-	B	A	25	C	C	A	B	C	C	-	A	A
Butyl Alcohol	-	B	B	A	A	A	A	A	A	A	B	A	150	B	B	A	A	B	A	A	A	A

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LEGEND: A Excellent B Good C Poor Not Recommended - No data available	METALS											COATING		SEATS								
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				304 SS	316 SS												MQ (SILICONE)					
Butyl Cellosolve	-	A	-	A	-	A	A	-	-	A	-	25	B	C	C	-	-	-	C	-	A	
Butyl Chloride	-	B	B	B	-	B	B	-	-	B	-	-	C	C	C	-	-	-	A	-	A	
Butylene	Liquid	-	A	A	A	A	A	-	-	A	-	150	C	A	C	C	C	C	B	A	A	
Butyl Phenol	-	-	C	C	-	B	-	B	-	B	-	100	C	C	C	C	C	C	B	-	A	
Butyl Stearate	-	B	C	A	-	A	A	B	-	A	-	25	C	C	C	C	C	B	A	-	A	
Butyric Acid	-	C	C	B	B	A	A	A	A	A	-	120	B	C	C	C	C	C	C	A	A	
Calcium Bisulfide	-	-	-	-	B	B	-	A	A	A	-	150	A	B	A	C	C	C	A	A	A	
Calcium Bisulfite	-	C	C	B	B	A	-	B	A	-	C	150	C	B	A	C	A	A	A	A	A	
Calcium Carbonate	-	B	B	A	B	B	A	B	B	-	C	150	B	A	A	A	A	A	A	-	A	
Calcium Chlorate	-	B	B	B	-	A	-	-	-	B	-	150	B	B	B	A	-	A	A	A	A	
Calcium Chloride	-	A	C	B	C	A	B	A	A	A	B	150	B	B	A	A	A	A	A	A	A	
Calcium Hydroxide	-	C	B	A	C	B	A	A	A	B	C	150	A	B	A	A	A	A	A	A	A	
Calcium Hypochlorite	30%	C	C	B	C	B	B	B	B	B	C	150	B	C	C	C	B	A	A	A	A	
Calcium Nitrate	-	B	B	C	C	A	-	B	B	-	B	150	B	B	A	A	B	A	A	A	A	
Calcium Oxide	-	A	B	-	A	A	A	A	A	-	-	150	B	B	A	B	A	A	A	A	A	
Calcium Phosphate	-	-	C	C	-	B	-	B	-	-	-	-	A	A	A	A	A	A	A	-	A	
Calcium Sulfate	-	A	B	A	B	B	A	A	A	-	B	150	B	A	B	B	-	B*	A	A	A	
Camphor	-	B	B	A	-	A	A	-	-	B	-	-	C	A	C	-	-	B*	-	A	A	
Cane Sugar	-	A	A	A	-	A	A	-	-	A	-	100	-	-	-	-	-	A	-	A	A	
Capric Acid	-	A	B	-	-	A	-	-	-	-	-	50	-	C	-	-	-	B*	-	A	A	
Carbitol	-	B	B	-	-	B	-	-	-	B	-	-	B	B	C	-	-	B	-	A	A	
Carbon Dioxide	Dry	A	A	A	A	B	A	A	A	A	A	150	B	A	B	B	B	A	A	A	A	
Carbon Dioxide	Wet	B	C	A	A	B	A	A	A	A	A	150	B	A	A	A	A	A	A	A	A	
Carbon Disulfide	-	A	B	A	B	B	-	B	B	B	B	25	C	C	C	C	C	C	B*	A	A	
Carbon Monoxide	Gas	A	A	A	A	A	A	A	-	A	-	50	B	A	A	B	A	A	A	A	A	
Carbon Tetrachloride	-	C	A	A	B	A	A	A	A	A	A	150	C	C	C	C	C	A	B	A	A	
Carbonic Acid	Sat'd.	B	C	A	B	A	A	A	C	A	C	150	B	A	B	B	A	A	A	A	A	
Castor Oil	-	A	A	A	A	A	A	A	A	A	A	150	B	B	A	A	A	A	A	A	A	
Caustic Soda	70%	-	C	B	-	B	-	A	-	-	C	A	-	A	B	A	A	A	C	-	A	
Cellosolve	-	A	A	A	-	A	-	A	-	-	A	150	B	C	-	C	-	C	-	A	A	
Cellosolve Acetate	-	B	-	-	-	B	-	-	-	B	-	50	C	C	C	-	-	C	-	A	A	
Cellulose Acetate	-	-	-	-	-	B	-	-	-	B	A	100	B	A	C	B	A	C	-	A	A	
Chloramine	Dilute	C	C	-	-	B	-	-	-	B	-	25	A	-	B	-	-	C	-	-	-	
Chloric Acid	10%	C	C	C	C	B	C	A	-	-	C	-	A	C	B	-	-	B	-	A	A	
Chloric Acid	20%	C	C	C	C	C	C	A	-	-	C	-	A	C	B	C	C	C	-	A	A	
Chlorine Gas (Moisture Content < 150 ppm)	-	A	B	B	B	A	-	A	C	A	C	100	A	B	C	C	C	A	A	A	A	
Chlorine Gas (Moisture Content > 150 ppm)	-	C	C	C	B	C	C	A	-	C	C	100	C	C	C	C	-	B*	-	A	A	
Chlorine	Liquid	C	C	C	C	C	C	B	C	C	C	100	C	C	C	C	C	B*	A	A	A	
Chlorinated Water (< 3500 ppm)	-	C	C	B	C	C	A	A	A	-	C	100	B	C	C	C	C	A	-	A	A	
Chlorinated Water (> 3500 ppm)	-	-	C	C	-	C	B	A	A	-	C	100	C	C	C	C	C	C	-	A	A	
Chloroacetic Acid	50%	C	C	C	C	C	C	A	B	-	C	-	B	C	B	C	C	C	A	A	A	



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A Excellent																						
B Good																						
C Poor Not Recommended																						
- No data available																						
Chlorobenzene	Dry	C	B	A	A	A	A	A	B	-	A	B	50	C	C	C	C	C	A	A	A	
Chlorobromomethane	-	-	C	C	-	B	-	-	-	-	-	A	-	C	C	C	C	C	A	A	A	
Chloro Dioxide	-	-	C	C	-	C	-	A	-	-	C	-	-	C	C	C	C	C	A	-	A	
Chloroform	Dry	C	B	A	A	A	A	B	A	-	A	B	100	C	C	C	C	C	B*	A	A	
Chloroprene	-	-	C	C	-	B	-	B	-	-	-	C	-	C	C	C	C	C	A	-	A	
Chlorosulfonic Acid	-	B	C	C	C	C	C	A	A	C	C	C	50	C	C	C	C	C	C	A	A	
Chromate Potassium	-	-	C	C	-	B	-	B	-	-	B	-	-	A	B	A	A	C	A	-	A	
Chromic Acid	10%	C	C	B	B	A	-	A	B	A	C	C	100	A	C	C	C	C	A	A	A	
Chromic Acid	30%	C	C	B	B	B	-	C	A	A	C	-	100	A	C	C	C	C	A	A	A	
Chromic Acid	50%	C	C	C	C	B	-	B	A	A	C	-	100	C	C	C	C	C	A	A	A	
Citric Acid	Sat'd.	C	C	B	C	A	A	A	A	B	C	A	150	A	A	A	A	A	A	A	A	
Cobalt Chlorite	-	-	C	C	-	-	-	-	-	-	-	C	-	B	C	A	A	A	A	-	A	
Coconut Oil	-	C	B	B	A	A	-	A	A	-	B	-	150	C	A	C	C	A	A	A	A	
Coffee	-	C	C	A	-	A	A	A	-	-	A	-	-	B	A	A	A	A	B	-	A	
Coke Oven Gas	-	A	A	A	-	A	A	-	-	B	B	-	100	C	C	C	-	-	A	-	A	
Colza Oil	-	-	B	B	-	A	-	A	-	-	A	B	-	A	B	B	C	C	A	-	A	
Copper Acetate	Sat'd.	C	C	B	-	A	-	B	-	-	C	A	-	B	C	B	B	C	C	-	A	
Copper Carbonate	Sat'd.	-	-	B	-	A	-	-	-	-	-	-	50	B	C	A	-	-	A	-	A	
Copper Chloride	Sat'd.	C	C	B	C	A	-	B	C	C	C	-	150	A	A	A	C	B	A	A	A	
Copper Cyanide	-	C	C	B	B	B	-	B	B	-	C	-	150	A	-	A	A	A	A	A	A	
Copper Nitrate	30%	C	C	B	A	A	-	B	B	-	C	A	150	B	B	A	C	A	A	A	A	
Copper Sulfate	Sat'd.	C	C	A	B	A	A	A	A	A	C	A	150	B	B	A	C	A	A	A	A	
Corn Oil	-	B	B	A	A	A	A	A	-	-	B	-	-	C	C	A	C	A	A	A	A	
Cottonseed Oil	-	B	B	A	A	A	A	A	A	A	B	-	150	C	A	C	C	A	A	A	A	
Cresol	90%	-	A	B	A	B	-	B	B	-	B	C	100	C	C	C	C	C	A	A	A	
Creosote	-	-	C	B	-	A	-	A	-	A	B	-	-	C	A	C	C	C	A	-	A	
Cresylic Acid	50%	A	B	A	B	A	A	B	B	A	A	-	50	C	C	C	C	C	A	A	A	
Crude Oil	-	C	B	A	-	A	A	-	-	-	C	A	150	C	B	C	C	C	A	-	A	
Cyclohexane	-	B	A	A	B	A	A	B	A	-	A	A	150	C	B	C	C	C	A	A	A	
Cyclohexanol	-	A	-	A	-	A	A	-	-	-	-	-	50	C	B	B	-	-	A	-	A	
Cyclohexanone	Liquid	B	A	B	B	A	-	B	-	-	B	-	50	B	C	C	C	C	C	A	A	
Detergents	-	A	A	A	B	A	A	B	A	-	A	-	150	A	B	B	B	A	A	A	A	
Dextrin (Starch Gum)	Sat'd.	B	B	-	-	A	-	B	-	-	A	A	100	A	A	A	A	A	A	-	A	
Dextrose	-	-	-	-	-	A	-	-	-	-	-	-	100	B	C	C	-	-	A	-	A	
Diacetone	-	-	C	B	-	A	-	-	-	-	-	A	-	-	-	-	-	-	C	-	A	
Diacetone Alcohol	-	A	A	A	A	A	A	A	A	A	A	-	50	B	C	C	C	C	C	A	A	
Dibenzyl Sebacate	-	-	C	B	-	A	-	B	-	-	-	A	-	B	C	C	C	B	B*	-	A	
Dibutoxyethyl Phthalate	-	A	A	-	-	A	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	
Dibutyl Phthalate	-	A	A	B	-	A	-	B	-	-	A	A	-	B	C	C	C	B	C*	-	A	
Dichloroacetic Acid	-	-	C	-	-	-	-	-	-	-	-	C	-	B	C	C	C	-	C	-	A	
Dichlorobenzene	-	A	B	A	-	B	-	B	-	-	-	-	25	C	C	C	C	C	A	-	A	
Dichloroethane	-	-	C	B	B	A	-	A	C	-	C	A	-	C	C	C	C	C	A	A	A	
Dichloroethylene	-	B	C	C	-	B	-	-	-	-	B	-	25	C	C	C	C	C	B*	-	A	

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LEGEND: A Excellent B Good C Poor Not Recommended - No data available	METALS											COATING		SEATS												
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS			630 SS	HASTELLOY C		TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)	NATURAL RUBBER		MQ (SILICONE)	FKM (VITON)	FFKM (KALREZ)	PTFE			
				304 SS	316 SS																					
Dichloromethane	-	-	C	B	-	A	-	-	-	-	-	B	-	C	C	C	C	C	C	C*	-	A				
Diesel Fuels	-	A	A	A	A	A	A	A	B	-	A	A	150	C	A	B	C	C	C	A	A	A				
Diethylamine	-	A	C	A	A	A	A	A	A	-	C	-	-	A	C	A	A	B	C	A	A					
Diethylbenzene	-	-	C	B	-	B	-	-	-	-	-	-	-	C	C	C	C	C	A	-	A					
Diethyl Cellosolve	-	A	-	-	-	A	-	-	-	-	-	-	150	-	-	-	-	-	-	-	-	-				
Diethyl Ether	-	-	B	C	C	B	-	C	A	-	C	A	25	C	C	C	C	C	C	A	A	A				
Diisobutyl Ketone	-	-	A	A	-	A	-	A	-	-	-	-	50	B	C	C	B	C	C	-	A					
Diisopropyl Ketone	-	-	C	B	-	A	-	-	-	-	-	-	25	A	C	C	-	-	C	-	A					
Dimethylamine	-	-	-	-	-	A	-	-	-	-	-	-	25	B	C	C	-	-	C	-	-					
Dimethylbenzene	-	-	C	C	-	B	-	B	-	-	-	A	-	C	C	C	C	C	A	-	A					
Dimethyl Ether	-	-	C	B	-	B	-	B	-	A	C	-	-	A	C	C	B	C	C	-	A					
Dimethyl Formamide	-	B	C	-	A	A	-	-	-	-	B	A	50	B	C	C	C	C	C	A	A	A				
Dimethyl Hydrazine	-	-	C	C	-	B	-	-	-	-	-	-	25	A	B	B	-	C	C	-	A					
Dimethyl Phthalate DMP	-	-	C	C	-	B	-	B	-	-	-	-	25	B	C	C	C	-	B*	-	A					
Diocetyl Phthalate	-	C	C	-	-	-	-	-	-	-	A	-	25	C	C	C	-	-	A	-	A					
Dioxane	-	A	A	B	-	B	A	B	-	-	A	-	50	B	C	C	C	C	C	-	A					
Diphenyl Oxide	Sat'd.	-	B	-	C	A	-	C	B	-	A	-	-	C	A	C	C	C	A	A	A					
Disodium Phosphate	-	B	-	-	-	A	-	-	-	-	B	-	150	B	A	A	-	-	A	-	A					
Dow Therm A	-	A	A	A	-	A	A	A	-	-	A	-	-	C	C	C	C	C	A	-	A					
Epichlorohydrin	-	-	C	B	-	A	-	A	-	-	-	-	-	C	C	C	C	C	C	-	A					
Ether	-	B	B	A	A	A	A	C	B	A	A	-	-	C	C	C	C	C	C	A	A					
Ethyl Acetate	-	A	B	A	B	A	A	A	B	B	B	A	50	B	C	C	C	B	C	-	A					
Ethyl Acrylate	-	A	A	A	-	A	A	-	-	-	-	A	50	C	C	C	-	C	C	-	A					
Ethyl Alcohol (Ethanol)	-	A	B	A	A	A	A	A	A	A	A	A	150	A	B	A	A	B	B*	A	A					
Ethyl Benzene	-	B	B	A	-	A	-	A	-	-	-	-	-	C	C	C	C	C	A	-	A					
Ethyl Chloride	Dry	A	C	A	A	A	A	B	A	A	B	-	150	A	A	C	B	C	A	-	A					
Ethyl Ether	-	-	B	B	B	B	-	B	B	A	B	A	50	C	C	C	C	C	C	A	A					
Ethyl Glycol	-	-	A	A	-	A	-	A	-	-	A	A	-	A	A	A	A	A	A	-	A					
Ethyl Mercaptan	-	-	C	C	-	A	-	B	-	-	-	-	-	C	C	C	C	C	A	-	A					
Ethyl Oxalate	-	-	C	-	-	A	-	-	-	-	-	-	-	A	C	C	A	-	A	-	A					
Ethyl Oxide	-	-	C	-	-	A	-	-	-	-	-	A	-	C	C	C	C	C	C	-	A					
Ethylene Bromide	Dry	A	B	B	A	A	-	B	B	-	-	-	150	C	C	C	C	C	B	A	A					
Ethylene Chloride (Vinyl Chloride)	Dry	-	C	C	B	A	-	-	C	-	-	A	150	C	C	C	C	C	B*	A	A					
Ethylene Chlorohydrin	-	-	B	B	B	B	-	B	B	-	C	A	25	C	C	A	C	C	A	A	A					
Ethylene Diamine	-	B	C	A	C	B	A	C	A	-	-	-	25	A	A	B	B	A	C	A	A					
Ethylene Dichloride	Dry	A	A	-	B	A	A	B	B	-	-	-	25	C	C	C	C	C	A	A	A					
Ethylene Glycol	-	A	B	A	B	A	A	C	B	A	A	-	150	A	A	A	A	A	A	A	A					
Ethylene Oxide	-	A	A	B	B	A	-	A	-	-	C	A	150	C	C	C	C	C	C	A	A					
Ethyl Formate	-	A	-	-	-	A	-	-	-	-	-	-	-	C	C	C	-	-	A	-	-					
Fat (Vegetable/Animals)	-	-	A	A	-	A	-	A	-	-	A	A	-	C	A	A	C	B	A	-	A					
Fatty Acids	-	C	C	B	B	A	-	A	B	-	C	A	150	C	B	C	C	C	A	A	A					



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Notes:

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LEGEND:	METALS										COATING		SEATS									
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS			630 SS	HASTELLOY C	TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)	NATURAL RUBBER	MQ (SILICONE)	FKM (VITON)	FKM (KALREZ)	PTFE	
				304 SS	316 SS																	
A Excellent																						
B Good																						
C Poor Not Recommended																						
- No data available																						
Ferric Chloride (Aqueous)	Sat'd.	C	C	C	C	C	C	B	A	C	C	C	150	A	A	B	A	B	A	A	A	A
Ferric Hydroxide	Sat'd.	C	-	-	-	A	-	-	-	-	-	-	-	B	B	B	-	-	A	-	A	A
Ferric Nitrate	Sat'd.	C	C	B	B	A	A	C	A	-	C	A	150	A	A	A	A	C	A	A	A	A
Ferric Sulfate	-	C	C	B	C	A	A	B	B	-	C	-	150	A	A	A	A	B	A	-	A	A
Ferrous Chloride	Sat'd.	C	C	C	C	C	C	C	A	-	C	C	150	A	A	A	A	A	A	A	A	A
Ferrous Hydroxide	Sat'd.	-	-	-	-	A	-	-	-	-	-	-	-	B	B	B	-	-	A	-	A	A
Ferrous Nitrate	-	-	-	-	-	A	A	-	-	-	-	-	150	B	B	B	-	-	A	-	A	A
Ferrous Sulfate	-	C	C	A	B	A	A	B	B	-	B	-	150	A	A	B	B	-	A	A	A	A
Fish Oil	-	A	A	A	-	A	A	-	-	-	C	-	-	C	A	B	-	-	A	-	A	A
Fluorobenzene	-	-	C	-	-	A	-	-	-	-	-	-	-	C	C	C	C	C	A	-	A	A
Fluorine	Dry	C	C	-	C	A	A	C	C	-	-	-	-	B	C	-	C	C	B	B	C	C
Fluorine	Wet	C	C	-	C	A	A	C	C	-	-	-	25	B	C	-	C	C	B	B	C	C
Fluoroboric Acid	-	C	-	-	B	A	-	B	C	-	-	-	25	A	A	A	A	-	A	A	A	A
Fluorosilicic Acid (Hydrofluosilicic Acid)	50%	C	C	B	C	B	B	B	C	C	C	-	150	A	A	A	A	C	A	A	A	A
Formaldehyde	Dilute	C	B	A	-	A	A	B	-	A	B	B	-	A	A	B	A	A	C	A	A	A
Formaldehyde	35%	-	C	A	-	A	A	B	-	A	B	B	50	A	A	B	A	A	C	A	A	A
Formaldehyde	50%	-	B	B	B	A	A	B	B	A	B	B	25	B	B	B	B	A	C	A	A	A
Formic Acid	-	C	C	A	C	A	A	A	C	A	B	C	100	A	C	A	C	B	C	A	A	A
Freon 11	100%	B	C	A	A	A	A	B	B	-	A	A	50	C	B	C	C	C	B	C	A	A
Freon 12	100%	B	C	A	C	A	A	B	B	-	A	A	50	B	B	A	C	C	B	C	A	A
Freon 21	100%	B	B	A	-	A	A	-	-	-	A	-	50	C	C	C	-	-	C	-	A	A
Freon 22	100%	B	C	A	A	A	A	A	B	-	A	A	50	A	C	A	C	C	C	B	C	A
Freon 113	100%	B	B	A	-	A	A	-	C	-	A	-	50	C	A	C	C	C	C	C	A	A
Freon 114	100%	B	B	A	-	A	A	-	-	-	A	-	50	B	B	B	-	-	B	-	A	A
Fuel Oil	-	-	A	A	A	A	-	B	A	A	B	-	-	C	A	B	C	C	A	A	B	A
Furan	-	-	A	-	B	A	-	B	-	-	-	-	-	C	C	C	C	C	C	A	A	A
Furfural	-	A	B	A	A	A	A	B	A	A	A	A	100	C	C	C	C	C	C	A	A	A
Gallic Acid	-	C	C	A	A	A	A	B	B	-	C	-	50	B	B	B	A	C	A	A	A	A
Gasoline (Leaded)	-	A	B	A	B	A	A	A	A	A	A	B	150	C	A	B	C	C	A	-	A	A
Gasoline (Unleaded)	-	A	B	A	B	A	A	A	A	A	A	B	150	C	B	B	C	C	A*	A	A	A
Gasohol	-	A	A	A	-	A	A	-	-	A	A	-	-	-	-	-	-	-	-	-	A	A
Gasoline (Sour)	-	A	A	B	-	A	A	-	-	-	-	-	150	C	A	C	-	-	B	-	A	A
Gelatin	-	C	C	C	-	C	A	A	-	-	B	A	100	A	A	A	A	A	A	-	A	A
Glauber's Salt	-	A	-	A	-	A	A	-	-	-	-	-	-	B	C	B	-	-	A	-	A	A
Glucose	-	A	B	A	B	A	A	A	A	A	A	A	150	A	A	A	A	A	A	A	A	A
Glue	-	A	A	A	-	A	A	-	-	-	A	A	-	B	B	A	A	A	A	-	A	A
Glycerine	-	A	A	A	A	A	A	A	A	A	A	A	150	A	A	A	A	A	A	A	A	A
Glycerine Trinitrate	-	-	B	B	-	A	-	A	-	-	-	-	-	A	B	B	B	-	A	-	A	A
Glycerol Nitrate	-	-	C	B	-	B	-	-	-	-	-	-	-	A	B	B	B	-	A	-	A	A
Glycerol Triacetate	-	-	B	A	-	A	-	A	-	-	-	-	-	A	B	B	B	A	C	-	A	A
Glycolic Acid	Sat'd.	C	C	B	A	A	-	A	A	-	-	-	50	A	B	A	C	A	C	A	A	A
Glycols	-	-	A	A	-	A	-	A	-	-	A	A	150	A	A	A	A	A	A	-	A	A
Grease	-	A	A	-	-	A	A	A	-	-	C	-	-	C	A	C	C	C	A	-	A	A

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LEGEND: A Excellent B Good C Poor Not Recommended - No data available	METALS											COATING		SEATS								
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS			630 SS	HASTELLOY C	TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)	NATURAL RUBBER			FKM (VITON)	FFKM (KALREZ)	PTFE
				304 SS	316 SS												MQ (SILICONE)					
Green Liquor	-	A	-	-	-	A	-	-	-	C	-	-	B	B	B	-	-	-	A	-	-	
Gypsum Slurry		A	B	A	B	B	A	A	A	-	B	A	150	B	A	B	B	-	B*	A	A	
Helium	-	-	C	B	-	A	-	A	-	-	B	-	-	A	A	A	A	A	A	-	A	
Heptane	-	A	A	A	A	A	A	A	A	-	A	A	150	C	A	B	C	C	A	-	A	
Hexaldehyde	-	-	-	-	-	-	-	-	-	-	-	A	-	A	C	A	C	B	C	-	A	
Hexane	-	A	A	A	A	A	A	A	A	-	A	A	150	C	A	B	C	C	A	A	A	
Hexanol (Hexyl Alcohol)	-	A	A	A	A	A	A	A	A	-	A	A	-	C	A	B	A	B	A	A	A	
Hydraulic Liquid H, HL, HLP	-	-	A	A	-	A	-	A	-	-	A	A	-	C	A	B	C	C	A	-	A	
Hydraulic Liquid HSB	-	-	A	A	-	A	-	A	-	-	A	A	-	C	A	C	C	C	A	-	A	
Hydraulic Liquid HSD	-	-	A	A	-	A	-	A	-	-	A	A	-	C	C	C	C	B	A	-	A	
Hydraulic Oil (Petroleum)	-	A	A	A	A	A	-	A	-	-	B	-	-	C	A	A	C	B	A	A	A	
Hydrazine	-	C	C	B	A	A	-	A	-	-	C	-	-	A	B	B	C	B	C	A	A	
Hydrobromic Acid 20%	20%	C	C	C	C	C	C	A	A	B	C	-	150	A	C	C	A	C	A	A	A	
Hydrobromic Acid 50%	50%	C	C	C	C	C	C	C	A	B	C	-	150	A	C	C	A	C	A	A	A	
Hydrochloric Acid 10%	10%	C	C	C	-	B	C	C	C	B	C	C	-	A	B	A	A	C	A	A	A	
Hydrochloric Acid 30%	30%	C	C	C	C	B	C	C	C	B	C	C	120	C	B	B	A	B	A	A	A	
Hydrocyanic Acid 10%	10%	C	C	C	-	A	B	B	A	A	C	-	150	A	B	A	B	C	A	A	A	
Hydrofluoric Acid Dilute	Dilute	C	C	C	-	C	C	-	-	C	C	-	150	A	B	B	-	-	C	A	A	
Hydrofluoric Acid 30%	30%	C	C	C	-	C	C	-	-	C	C	-	120	B	C	-	-	-	C	A	A	
Hydrofluoric Acid 50%	50%	C	C	C	C	C	C	B	C	C	C	-	120	C	C	C	B	C	C	A	A	
Hydrofluoric Acid 70%	70%	-	C	C	C	C	-	B	C	C	-	C	-	C	C	C	C	C	C	A	A	
Hydrofluoric Acid 100%	100%	-	C	C	C	-	-	B	C	C	B	C	-	C	C	C	C	C	C	A	A	
Hydrofluosilicic Acid 50%	50%	C	C	B	-	B	B	-	-	-	-	-	150	A	B	C	-	-	A	-	A	
Hydrogen Gas	Gas	A	A	A	A	A	A	A	A	A	A	A	150	A	A	A	B	C	A	A	A	
Hydrogen Peroxide 50%	50%	C	C	A	B	A	A	B	A	A	C	B	50	B	C	A	B	B	A	A	A	
Hydrogen Peroxide 90%	90%	C	C	A	B	A	A	A	B	A	C	B	50	B	C	C	C	B	B*	A	A	
Hydrogen Potassium Sulphate	-	-	C	-	-	A	-	-	-	-	-	-	-	A	A	A	A	B	A	-	A	
Hydrogen Sulfide Dry	Dry	-	C	-	C	A	B	A	A	-	C	-	150	B	C	A	C	C	C	A	A	
Hydrogen Sulfide Wet	Wet	C	C	C	C	A	C	A	B	C	C	-	50	B	C	A	C	C	C	A	A	
Hydrogen Sulphite	-	C	C	C	-	A	-	B	-	-	C	-	-	-	-	-	-	-	C	-	-	
Hydroquinone	-	-	C	B	B	B	-	B	B	-	B	C	100	C	C	A	A	-	B*	A	A	
Inks	-	C	C	B	C	A	-	A	-	-	A	A	-	B	B	A	C	A	A	-	A	
Iodine 10%	10%	C	C	C	C	C	C	A	A	-	C	C	100	B	B	C	C	B	A	A	A	
Iodoform (Triiodomethane)	-	-	C	B	-	A	-	C	-	-	B	C	-	A	-	-	-	-	C	-	A	
Isobutane	-	A	A	A	-	A	A	-	-	-	A	-	-	C	A	C	-	-	A	-	A	
Isobutanol	-	-	B	C	A	B	-	B	B	A	-	A	-	A	B	A	A	A	A	A	A	
Isooctane	-	A	A	A	B	A	A	A	-	-	A	A	-	C	A	C	B	C	A	A	A	
Isopropyl Acetate	-	A	A	A	C	A	A	B	-	-	-	-	-	B	C	C	C	C	C	A	A	
Isopropyl Alcohol	-	A	A	A	B	B	A	A	B	A	A	A	150	A	B	A	A	A	A	A	A	
Isopropyl Ether	-	A	A	A	A	A	A	B	-	A	B	-	25	C	B	B	C	C	C	A	A	
Jet Fuel JP-3	-	A	A	A	A	A	A	A	A	-	A	-	-	C	A	C	C	C	A	A	A	
Jet Fuel JP-4	-	A	A	A	A	A	A	A	A	-	A	-	150	C	A	C	C	C	A	A	A	



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Notes:

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LEGEND:	METALS										COATING		SEATS									
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS	304 SS	316 SS	630 SS	HASTELLOY C	TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)	NATURAL RUBBER	MQ (SILICONE)	FKM (VITON)	FFKM (KALREZ)	PTFE	
A Excellent																						
B Good																						
C Poor Not Recommended																						
- No data available																						
Jet Fuel JP-5	-	A	A	A	A	A	A	A	A	-	A	-	150	C	A	C	C	C	A	A	A	A
Jet Fuel JP-6	-	A	A	A	A	A	A	A	A	-	A	-	-	C	B	C	C	C	A	A	A	A
Kerosene	-	A	A	A	A	A	A	B	A	A	A	150	C	A	A	C	C	C	A	A	A	A
Ketchup	-	C	C	B	-	A	A	-	-	-	C	-	-	A	A	A	-	-	A	-	A	A
Ketones	-	A	B	A	A	A	A	A	A	-	A	-	-	A	A	C	A	C	C	A	A	A
Kraft Liquors	-	C	C	-	-	A	-	-	-	-	C	-	-	-	-	-	-	-	-	-	-	A
Lactic Acid	25%	B	C	A	B	A	A	B	A	B	C	B	50	A	A	B	A	A	A	A	A	A
Lactic Acid	80%	B	C	A	B	A	A	B	A	C	C	B	25	A	A	B	A	A	A	A	A	A
Lanoline	-	-	B	B	-	A	-	A	-	-	B	A	-	C	A	B	B	B	A	-	A	A
Lard Oil	-	B	B	-	-	A	-	-	-	-	C	-	120	-	-	-	-	-	-	-	-	A
Latex	-	A	A	-	A	A	-	A	-	-	-	-	-	A	A	A	-	A	A	-	A	A
Lauric Acid	-	C	-	B	-	A	-	B	-	-	-	-	100	C	A	A	-	-	A	-	A	A
Lauryl Chloride	-	C	-	-	-	A	-	-	-	-	-	-	100	-	-	-	-	-	-	-	-	A
Lead Acetate	Sat'd.	C	C	B	B	A	-	B	B	-	C	B	150	A	B	A	A	A	C	A	A	A
Lead Chloride	-	-	C	C	-	B	-	B	-	-	-	-	150	A	A	B	-	-	A	-	A	A
Lead Nitrate	Sat'd.	-	C	-	C	B	-	B	-	-	-	-	150	A	A	A	-	-	A	A	A	A
Lead Sulfate	-	C	C	-	-	B	-	-	-	-	-	-	150	B	A	B	-	-	A	-	A	A
Lead Tetraethyl	-	-	C	B	-	B	-	-	-	-	C	A	-	C	B	C	C	C	A	-	A	A
Lemon Oil	-	C	-	B	A	A	A	-	-	-	-	-	100	C	A	C	-	-	A	-	A	A
Lime	-	-	B	C	A	A	-	A	A	-	A	-	-	C	A	A	-	-	A	-	A	A
Lime Sulfur	-	A	A	-	-	A	-	-	-	-	C	-	50	B	B	B	-	-	A	-	-	-
Linoleic Acid	-	C	C	C	B	B	B	B	-	-	C	-	100	C	C	C	C	B	B*	A	A	A
Linseed Oil	-	A	A	A	A	A	A	B	A	-	A	-	100	C	A	C	C	A	A	A	A	A
Lithium Bromide	-	-	C	C	-	B	-	B	-	-	-	C	50	A	A	A	A	A	B*	-	A	A
Lithium Chloride	-	B	C	C	B	A	-	-	-	-	B	C	-	B	A	B	C	B	A	A	A	A
Lithium Hydroxide	-	A	B	-	B	A	-	B	-	-	C	-	-	A	C	A	-	-	C	A	-	-
Lubricating Oil (ASTM #1)	-	A	A	A	-	A	A	A	-	-	A	-	150	C	A	B	C	B	A	-	A	A
Lubricating Oil (ASTM #2)	-	A	A	A	-	A	A	A	-	-	A	-	150	C	B	C	C	B	A	-	A	A
Lubricating Oil (ASTM #3)	-	A	A	A	-	A	A	A	-	-	A	-	150	C	A	C	C	C	A	-	A	A
Magnesium Carbonate	-	B	B	A	B	A	A	B	A	-	-	-	150	A	A	A	-	-	A	-	A	A
Magnesium Chloride	Sat'd.	C	C	C	C	C	C	A	A	C	B	A	150	A	A	A	A	A	A	A	A	A
Magnesium Hydroxide	-	-	A	B	B	A	-	A	A	A	B	A	150	A	A	A	A	A	A	A	A	A
Magnesium Nitrate	-	-	C	C	B	B	-	A	A	-	C	-	150	A	A	A	A	-	-	-	-	A
Magnesium Oxide	-	A	-	-	A	A	-	-	-	A	-	-	-	-	A	A	-	-	-	-	-	-
Magnesium Sulfate	-	A	B	A	A	A	A	B	B	B	A	A	150	A	A	A	B	A	A	A	A	A
Maleic Acid	Sat'd.	C	C	B	A	A	B	B	A	-	B	-	100	C	C	A	C	C	A	A	A	A
Malic Acid	-	-	C	C	A	A	-	B	A	-	C	-	100	C	A	C	B	B	A	A	A	A
Manganese Sulfate	-	C	B	-	B	B	-	A	A	-	A	-	-	A	A	A	A	B	A	-	A	A
Margarine	-	-	B	B	-	A	-	A	-	-	-	A	-	C	A	B	C	A	A	-	A	A
Mercuric Chloride	-	C	C	C	C	B	C	C	B	-	C	-	100	B	A	A	A	-	A	A	A	A
Mercuric Cyanide	Sat'd.	C	C	-	C	C	-	A	A	-	C	-	100	B	B	A	-	A	B*	A	A	A
Mercurus Chloride	-	-	C	C	-	B	-	B	-	-	C	C	-	A	C	B	A	A	A	-	A	A

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LEGEND: A Excellent B Good C Poor Not Recommended - No data available	METALS											COATING		SEATS								
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS			630 SS	HASTELLOY C		TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)	NATURAL RUBBER	MQ (SILICONE)	FKM (VITON)	FFKM (KALREZ)	PTFE
				304 SS	316 SS																	
Mercurous Nitrate	Sat'd.	C	B	A	B	B	A	B	B	-	C	-	100	B	B	C	C	A	B*	A	A	
Mercury Hg	-	A	C	A	A	A	A	A	A	B	C	A	150	A	A	A	A	A	A	A	A	
Methane	-	A	C	A	A	A	A	A	-	-	A	-	100	C	A	C	C	C	A	A	A	
Methanol (Methyl Alcohol)	-	A	A	A	A	A	A	A	B	A	A	B	-	A	B	A	A	A	C*	A	A	
Methyl Acetate	-	B	B	B	A	A	-	A	-	-	A	A	-	B	C	B	C	C	C	A	A	
Methyl Acetone	-	A	A	A	A	A	A	-	-	-	A	-	-	B	C	C	A	-	-	-	A	
Methyl Amine	-	A	B	-	-	A	-	-	-	-	-	-	25	A	C	A	A	C	C	-	A	
Methyl Bromide	-	C	A	B	A	A	-	B	-	-	B	A	150	C	C	C	C	C	A	A	A	
Methyl Butyl Ketone	-	-	C	-	A	A	-	-	-	-	-	-	-	B	C	C	C	C	C	A	A	
Methyl Cellosolve	-	B	A	A	B	B	A	B	-	-	B	-	150	B	C	B	C	C	C	A	A	
Methyl Chloride	Dry	A	C	A	A	A	A	B	A	A	C	A	150	C	C	C	C	C	B*	A	A	
Methyl Chloroform	-	A	-	C	-	A	-	B	-	-	C	B	50	C	C	C	C	C	B*	-	A	
Methyl Dichloroacetate	-	-	C	C	-	B	-	B	-	-	-	-	-	B	C	C	C	C	C	-	A	
Methyl Ethyl Glycol	-	-	B	B	-	A	-	B	-	-	-	C	-	B	C	C	C	B	C	-	A	
Methyl Ethyl Ketone (MEK)	-	A	A	A	A	A	A	A	A	A	A	C	50	A	C	C	C	C	C	A	A	
Methyl Formate	-	A	C	A	-	A	A	-	-	-	A	-	50	B	C	C	-	-	C	-	-	
Methyl Isobutyl Ketone	-	-	A	C	B	A	A	A	A	-	-	C	50	B	C	C	C	C	C	A	A	
Methyl Isopropyl Ketone	-	-	-	-	A	A	-	-	-	-	-	-	-	C	C	C	C	C	C	A	A	
Methyl Methacrylate	-	-	C	B	B	B	-	-	-	-	-	-	50	C	C	C	C	C	C	A	A	
Methylene Bromide	-	-	-	-	-	-	-	-	-	-	-	-	25	C	C	C	-	-	C	-	A	
Methylene Chloride	-	B	B	C	B	A	A	B	B	-	B	B	50	C	C	C	C	C	C	A	A	
Milk	-	C	C	B	A	A	-	A	A	A	B	A	100	A	B	A	A	A	A	A	A	
Mineral Grease	-	-	A	A	-	A	-	A	-	-	A	A	-	C	A	A	C	B	A	-	A	
Mineral Oil	-	A	B	A	A	A	A	A	A	A	A	A	150	C	A	B	C	C	A	A	A	
Molasses	-	A	B	A	A	A	A	A	A	-	A	A	50	B	A	A	A	A	A	-	A	
Monochloroacetic Acid	50%	C	C	C	B	B	C	A	A	-	C	-	-	C	C	A	-	-	B	A	A	
Monochloroacetic Acid Ester	-	-	C	-	-	B	-	-	-	-	B	-	-	A	C	C	C	C	C	-	A	
Monochlorobenzene	-	A	A	A	-	A	A	-	-	-	-	C	-	C	C	C	C	B	B*	-	A	
Monoethanolamine	-	B	B	-	A	A	-	-	B	-	C	-	-	B	C	C	B	B	C	A	A	
Morpholine	-	B	A	B	-	B	B	B	-	-	-	-	-	C	C	C	B	-	B	A	A	
Motor Oil	-	A	A	A	B	A	A	-	B	-	A	-	150	C	A	C	-	-	A	A	A	
Naphtha	-	A	B	A	A	A	A	B	B	-	B	-	-	C	A	C	C	C	A	A	A	
Naphthalene	-	A	A	A	A	A	A	A	A	-	B	A	25	C	C	C	C	C	A	A	A	
Natural Gas	-	A	A	A	A	A	A	B	-	A	A	A	50	C	A	A	C	A	A	A	A	
Nickel Ammonium Sulfate	-	C	C	-	-	A	-	-	-	-	C	-	-	A	A	A	-	-	B*	-	A	
Nickel Chloride	Sat'd.	C	C	C	C	C	-	B	A	B	B	C	150	B	B	B	A	A	A	A	A	
Nickel Nitrate	Sat'd.	C	C	A	B	B	A	B	-	-	C	-	150	A	B	A	B	A	A	A	A	
Nickel Sulfate	Sat'd.	C	C	B	B	A	-	B	A	B	B	A	150	B	B	A	B	B	A	-	A	
Nicotine	-	-	C	B	-	A	-	-	-	-	-	-	50	A	C	A	B	C	B*	-	A	
Nicotinic Acid	-	C	C	B	-	B	B	-	-	-	-	-	100	B	A	C	C	C	B	-	A	



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Notes:

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LEGEND:	METALS										COATING		SEATS									
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS	304 SS	316 SS	630 SS	HASTELLOY C	TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)	NATURAL RUBBER	MQ (SILICONE)	FKM (VITON)	FFKM (KALREZ)	PTFE	
A Excellent																						
B Good																						
C Poor Not Recommended																						
- No data available																						
Nitric Acid	<10%	C	C	B	A	A	A	B	B	C	C	C	120	B	C	B	C	C	C*	A	A	A
Nitric Acid	30%	C	C	A	A	-	A	B	B	C	C	-	100	B	C	C	C	C	C*	A	A	A
Nitric Acid	40%	C	C	A	A	-	A	B	B	C	C	-	100	C	C	C	C	C	C*	A	A	A
Nitric Acid	50%	C	C	B	A	A	-	B	B	C	C	-	50	C	C	C	C	C	C*	A	A	A
Nitric Acid	70%	C	C	C	-	A	-	B	B	C	C	C	50	C	C	C	C	C	C*	-	A	A
Nitric Acid	100%	-	C	C	B	B	-	C	B	C	C	C	50	C	C	C	C	C	C*	A	A	A
Nitric Acid	Fu-ming	C	C	C	B	B	-	C	B	C	C	C	-	C	C	C	C	C	C*	A	A	A
Nitrobenzene	-	A	A	B	B	B	-	C	A	-	B	C	50	C	C	C	C	C	C*	A	A	A
Nitrogen	-	A	A	A	A	A	A	A	A	-	A	-	-	A	A	A	A	A	A	A	A	A
Nitroglycerin	-	B	B	-	-	A	-	-	-	-	-	-	-	A	C	A	-	-	C	-	A	A
Nitromethane	-	-	B	B	A	B	-	A	-	-	-	A	-	B	C	C	C	C	C	A	A	A
Nitrous Acid	10%	C	C	B	B	B	B	C	-	-	C	-	100	A	C	C	C	-	C	A	A	A
Nitrous Oxide	-	B	B	-	B	B	-	B	-	-	C	A	50	A	A	A	A	A	C	A	A	A
Octane	-	A	A	A	-	A	A	-	-	-	A	-	-	C	B	C	-	-	A	-	A	A
Oleic Acid	-	B	C	B	A	A	A	A	B	A	A	A	100	B	B	C	C	C	B*	A	A	A
Oleum (Sulfuric Acid)	Fu-ming	-	C	C	A	C	-	C	C	A	C	C	25	C	C	C	C	C	B*	A	A	A
Olive Oil	-	A	A	B	A	A	A	A	A	-	A	A	-	C	C	B	C	B	A	A	A	A
Oxalic Acid	50%	C	C	B	B	A	A	B	A	B	C	C	50	A	C	C	B	B	A	A	A	A
Oxygen	GAS	A	A	A	-	A	A	A	-	A	A	B	150	A	C	B	B	A	B*	-	A	A
Oxygen	Liquid	-	C	C	-	A	-	-	-	A	B	-	-	A	C	B	C	A	C	-	A	A
Ozone	-	A	C	A	B	A	A	A	-	-	A	C	150	A	C	C	C	A	A	A	A	A
Paint Thinner	-	-	C	B	-	A	-	A	-	-	-	-	-	C	C	C	C	C	C*	-	A	A
Palm Oil	-	C	C	-	A	A	-	-	A	-	-	-	-	A	A	C	-	-	A	-	A	A
Palmitic Acid	10%	B	B	B	-	A	A	-	-	A	B	-	100	C	A	B	B	C	A	-	A	A
Palmitic Acid	70%	B	C	B	C	A	A	B	-	A	B	-	100	C	A	C	C	C	A	A	A	A
Parafin	-	A	A	A	A	A	A	B	A	-	A	A	50	C	B	B	B	A	A	-	A	A
Peanut Oil	-	A	-	B	-	A	-	A	-	-	A	A	-	C	A	B	C	A	A	-	A	A
Pentane	-	A	C	A	C	C	A	A	-	-	A	A	-	C	A	B	C	C	A	A	A	A
Perchloric Acid	10%	-	C	C	C	A	-	B	C	-	C	-	50	B	C	A	C	C	A	A	A	A
Perchloric Acid	70%	-	C	C	C	B	-	B	C	-	C	-	50	B	C	A	C	C	A	A	A	A
Perchloroethylene (Tetrachloroethylene)	-	B	A	A	B	B	A	B	A	-	B	B	-	C	C	C	C	C	A	A	A	A
Phenol	-	C	C	A	B	B	A	A	A	A	C	C	50	B	C	C	C	C	A	A	A	A
Phenylhydrazine	-	-	C	-	-	C	-	-	-	-	-	-	25	C	C	C	B	C	C	-	B	A
Phosgene	Liquid	-	-	-	-	B	-	B	-	-	-	-	-	B	B	A	C	C	C	-	A	A
Phosphate Esters	-	C	-	-	-	A	-	-	-	-	-	-	-	A	C	C	-	-	-	-	-	-
Phosphoric Acid	10%	C	C	B	C	C	A	A	C	C	C	C	150	B	A	B	B	C	A	-	A	A
Phosphoric Acid	50%	C	C	B	C	C	A	A	C	C	C	C	150	B	C	B	B	C	A	A	A	A
Phosphoric Acid	85%	C	C	B	C	C	A	A	C	C	C	C	150	B	C	B	B	C	A	A	A	A
Phosphoric Anhydride	-	-	C	-	-	A	-	-	-	-	-	-	-	A	B	B	-	-	B	-	-	-
Phosphoric Dioxide	-	-	C	-	-	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A
Phosphorus Oxychloride	-	-	C	C	-	C	-	B	-	-	C	-	-	A	C	B	B	C	A	-	A	A

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LEGEND: A Excellent B Good C Poor Not Recommended - No data available	METALS										COATING		SEATS									
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS	304 SS	316 SS	630 SS	HASTELLOY C	TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)	NATURAL RUBBER	MQ (SILICONE)	FKM (VITON)	FFKM (KALREZ)	PTFE	
	Phosphorus Pentoxide	-	-	B	-	-	A	-	-	-	-	C	-	-	-	-	-	-	-	-	-	A
	Phosphorus Trichloride	-	-	A	-	B	A	-	A	A	-	-	-	-	B	C	C	C	-	A	A	A
Photographic Solutions	-	C	C	-	C	A	-	B	B	-	-	-	50	B	B	C	B	A	A	A	A	
Phthalic Acid	-	B	A	B	B	A	A	B	A	-	C	B	-	B	C	A	A	C	B	A	A	
Phthalic Anhydride	-	-	A	B	A	A	-	A	-	-	C	-	-	A	C	A	A	A	C	A	A	
Picric Acid	10%	C	C	B	B	B	-	B	A	C	C	-	25	B	C	A	C	C	A	A	A	
Pine Oil	-	B	B	A	A	A	A	-	A	-	B	-	-	C	C	C	C	C	A	A	A	
Plating Solutions (Brass)	-	-	-	-	A	A	-	A	A	-	-	-	50	A	A	A	-	-	A	-	A	
Plating Solutions (Cadmium - Cyanide Bath)	-	-	-	-	-	A	-	A	A	-	-	-	50	A	A	B	-	-	A	-	A	
Plating Solutions (Chrome)	-	-	-	-	-	A	-	-	-	-	-	-	50	A	C	C	-	-	A	-	A	
Plating Solutions (Copper - Acid)	-	-	-	-	-	C	-	C	A	-	-	-	50	B	A	A	-	-	A	-	A	
Plating Solutions (Gold - Acid)	-	-	-	-	-	C	-	A	A	-	-	-	50	B	B	B	-	-	A	-	A	
Plating Solutions (Lead - Fluoroborate)	-	-	-	-	-	C	-	A	C	-	-	-	50	B	B	A	-	-	A	-	A	
Plating Solutions (Nickel - Fluoroborate)	-	-	-	-	-	C	-	A	C	-	-	-	50	B	B	B	-	-	A	-	A	
Plating Solutions (Silver)	-	-	-	-	-	A	-	A	A	-	-	-	50	B	B	B	-	-	A	-	A	
Plating Solutions (Tin - Lead)	-	-	-	-	-	C	-	A	C	-	-	-	50	A	B	A	-	-	A	-	A	
Plating Solutions (Zinc - Alkaline)	-	-	B	-	-	A	-	A	A	-	-	-	50	B	B	B	-	-	A	-	A	
Polyvinyl Acetate	-	A	C	B	-	B	B	-	-	-	B	-	-	B	A	C	-	-	C	-	A	
Potassium Aluminum Sulphate	-	-	C	B	-	A	-	-	-	-	-	-	150	A	B	B	-	-	A	-	A	
Potassium Bicarbonate	Sat'd.	-	B	-	B	B	-	B	A	-	-	-	-	A	A	A	A	B	A	A	A	
Potassium Bichromate	Sat'd.	-	B	B	-	A	-	-	-	-	-	-	100	A	A	A	-	-	A	-	A	
Potassium Bisulfate	-	C	C	-	-	A	-	-	-	-	B	-	100	B	A	A	-	-	A	-	A	
Potassium Borate	-	-	C	-	-	A	-	-	-	-	-	-	50	A	A	A	A	B	A	-	A	
Potassium Bromate	-	A	A	-	-	A	-	-	-	-	-	-	-	A	B	B	-	-	A	-	A	
Potassium Bromide	-	C	C	C	B	B	-	B	A	-	B	C	150	B	A	A	A	B	B*	A	A	
Potassium Carbonate (Potash)	-	A	B	A	B	B	A	B	A	-	B	A	150	B	A	A	A	A	B*	A	A	
Potassium Chlorate (Aqueous)	-	A	A	A	C	B	A	B	A	A	C	A	150	B	C	A	B	B	B*	A	A	
Potassium Chloride	-	B	C	B	C	B	B	A	A	B	A	A	150	B	B	A	A	A	A	A	A	
Potassium Chromate	-	B	B	-	C	C	A	A	-	-	B	-	150	A	B	A	B	-	B*	A	A	
Potassium Cyanide	-	B	B	A	C	C	A	B	A	-	C	-	150	B	B	B	A	A	A	A	A	
Potassium Dichromate	Sat'd.	B	B	A	B	C	A	B	A	-	C	B	150	B	B	A	B	A	A	A	A	



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Notes:

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LEGEND:	METALS										COATING		SEATS									
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS	304 SS	316 SS	630 SS	HASTELLOY C	TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)	NATURAL RUBBER	MQ (SILICONE)	FKM (VITON)	FFKM (KALREZ)	PTFE	
A Excellent																						
B Good																						
C Poor Not Recommended																						
- No data available																						
Potassium Ferricyanide	-	B	C	-	C	C	-	B	A	-	-	-	150	A	C	B	B	-	B*	A	A	
Potassium Ferrocyanide	-	C	C	B	-	B	-	B	A	-	C	-	150	A	C	A	A	-	A	-	A	
Potassium Fluoride	-	-	-	-	-	A	-	-	-	-	-	-	-	A	B	A	-	-	A	-	A	
Potassium Hydroxide	25%	B	C	B	B	B	A	C	C	A	C	A	150	A	C	B	B	C	C	A	A	
Potassium Hypochlorite	-	-	C	C	C	B	-	B	B	-	-	B	-	A	B	B	C	-	C	A	A	
Potassium Iodide	-	-	B	B	B	A	-	A	B	-	C	-	100	A	B	A	B	A	A	A	A	
Potassium Nitrate	-	B	B	A	B	B	A	C	A	-	B	A	150	A	A	A	A	A	A	-	A	
Potassium Perborate	-	-	-	-	-	-	-	-	-	-	-	-	-	A	B	A	-	-	B	-	A	
Potassium Perchlorate	-	-	C	C	-	B	-	B	-	-	-	-	25	A	C	A	C	C	A	-	A	
Potassium Permanganate	10%	A	B	A	C	B	A	B	A	-	B	C	150	A	C	A	B	C	B*	A	A	
Potassium Permanganate	25%	A	B	A	C	B	A	B	A	-	B	C	150	A	C	A	B	C	B*	A	A	
Potassium Persulfate	-	-	C	C	-	B	-	B	-	-	-	-	50	A	C	B	A	C	A	-	A	
Potassium Silicate	-	-	C	C	-	A	-	A	-	-	-	A	-	-	-	-	-	-	A	-	A	
Potassium Sulfate	-	A	B	A	C	A	A	C	A	A	B	A	150	A	A	A	A	A	A	A	A	
Potassium Sulfide	-	C	C	B	B	B	B	B	A	-	C	-	-	A	A	A	B	A	A	A	A	
Potassium Sulfite	-	C	C	C	-	A	-	B	-	-	B	C	-	A	B	A	A	A	A	-	A	
Potassium Tetraborate	-	A	A	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	
Potassium Triphosphate	-	-	A	-	-	A	-	-	-	-	B	-	-	-	-	-	-	-	-	-	A	
Propane	-	A	B	A	A	A	A	A	-	A	A	A	150	C	A	C	C	C	A	A	A	
Propionic Acid	-	-	C	-	-	A	-	-	-	-	-	-	-	B	A	A	C	C	C	-	A	
Propyl Acetate	-	-	A	A	-	A	A	-	-	-	-	-	50	C	C	C	-	-	C	-	A	
Propyl Alcohol	-	A	A	A	A	A	A	A	A	A	A	-	150	A	A	A	A	A	A	A	A	
Propyl Bromide	-	B	B	-	-	A	-	-	-	-	B	-	-	-	-	-	-	-	-	-	A	
Propyl Nitrate	-	A	-	-	-	A	-	-	-	-	-	-	-	C	C	C	-	-	C	-	A	
Propylene Glycol	<25%	A	B	A	B	B	A	B	A	-	A	-	-	A	A	C	A	A	A	A	A	
Propylene Glycol	>25%	A	B	A	B	B	A	B	A	-	A	-	-	A	A	C	A	A	A	A	A	
Propylene Nitrate	-	-	C	C	-	B	-	-	-	-	C	-	-	B	C	C	C	C	C	-	A	
Propylene Oxide	-	-	A	B	-	A	-	A	-	-	-	-	-	C	C	C	C	C	C	-	A	
Pyridine	-	B	A	C	A	A	-	B	B	-	B	A	-	B	C	C	C	C	C	A	A	
Pyrogallol	-	-	C	B	-	B	-	-	-	-	B	-	-	-	-	-	-	-	-	-	A	
Pyrogallic Acid	-	A	B	A	B	A	A	B	A	-	-	-	50	B	B	A	-	-	A	A	A	
Pyrrole	-	B	B	-	-	B	-	-	-	-	-	-	-	C	C	C	-	-	C	-	-	
Quinone	-	A	-	-	-	A	-	-	-	-	-	-	-	C	C	C	-	-	B*	-	-	
Rosin	-	C	C	A	B	B	A	-	-	A	-	-	-	C	A	A	-	A	A	-	A	
Salicylic Acid	-	C	C	B	B	B	-	A	B	-	C	-	50	A	B	-	A	-	A	A	A	
Silicone Greases	-	-	A	A	-	A	-	A	-	-	A	A	-	A	A	A	A	A	A	-	A	
Silicone Oil	-	A	A	A	A	A	A	A	-	-	A	A	25	A	A	C	C	C	A	A	A	
Silver Chloride	-	C	C	C	-	C	C	-	-	-	C	-	-	A	C	A	-	-	A	-	-	

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LEGEND: A Excellent B Good C Poor Not Recommended - No data available	METALS											COATING		SEATS																		
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS			630 SS	HASTELLOY C		TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)			MQ (SILICONE)	FKM (VITON)		FFKM (KALREZ)	PTFE								
				304 SS	316 SS	-		-	-								-	-	-		-	-			-	-	-	-	-	-	-	-
				-	-																											
Silver Cyanide	-	C	C	-	-	A	-	-	-	-	C	-	150	A	C	A	-	-	B*	-	A											
Silver Nitrate	-	C	C	B	B	B	-	A	A	C	C	-	150	A	B	A	A	A	A	A	A	A										
Soaps	-	B	A	A	A	A	A	A	A	A	A	-	50	A	A	B	B	A	A	A	A	A										
Sodium Acetate	Sat'd.	B	C	B	B	B	-	A	A	A	B	A	150	A	B	B	A	C	A	A	A	A										
Sodium Aluminate	Sat'd.	B	A	-	A	A	-	B	A	-	B	-	150	B	A	A	B	-	B*	A	A	A										
Sodium Benzoate	-	-	-	-	-	-	-	B	B	-	-	-	150	A	B	B	A	-	B*	A	A	A										
Sodium Bicarbonate	-	A	C	A	A	A	A	B	A	A	B	-	150	A	B	A	A	A	A	A	A	A										
Sodium Bisulfate	-	C	C	B	C	A	-	B	A	A	C	-	150	B	B	A	A	A	A	A	A	A										
Sodium Bisulfite	-	C	C	-	C	C	-	B	A	-	-	-	150	A	A	A	A	A	A	A	A	A										
Sodium Bromide	Sat'd.	C	C	C	C	C	-	B	B	-	C	A	150	A	C	B	B	-	B*	A	A	A										
Sodium Carbonate	-	A	B	B	A	A	A	A	-	A	B	A	150	A	B	B	A	A	A	A	A	A										
Sodium Chlorate	Sat'd.	B	B	B	A	C	A	C	A	-	C	-	150	B	B	A	A	C	B*	A	A	A										
Sodium Chloride	-	B	C	A	B	B	B	A	A	A	A	A	150	A	A	A	A	A	A	A	A	A										
Sodium Chlorite	25%	-	C	C	-	B	-	B	-	-	-	-	100	A	C	C	C	-	B*	-	A	A										
Sodium Chromate	-	B	B	A	C	B	A	A	-	A	-	-	-	A	A	A	B	-	B*	A	A	A										
Sodium Cyanide	-	A	B	B	B	C	A	A	A	C	C	-	150	A	A	B	A	A	A	A	A	A										
Sodium Dichromate	20%	B	B	-	-	A	-	-	-	-	C	-	50	A	A	C	-	-	B*	-	A	A										
Sodium Dioxide	-	-	C	B	-	A	-	A	-	-	C	-	-	A	B	B	B	C	A	-	A	A										
Sodium Disulphate	-	-	C	B	-	A	-	B	-	-	-	-	-	A	A	A	A	A	A	-	A	A										
Sodium Ferricyanide	Sat'd.	C	-	-	-	A	-	-	-	-	-	-	-	A	A	A	-	-	A	-	A	A										
Sodium Ferrocyanide	Sat'd.	-	-	-	B	B	-	A	-	-	-	-	-	A	A	A	B	-	A	A	A	A										
Sodium Fluoride	-	C	C	C	C	C	-	A	A	-	B	-	150	A	B	A	-	-	A	A	A	A										
Sodium Hydroxide	<10%	A	A	A	-	A	A	A	-	A	A	A	150	B	A	A	A	A	B*	A	A	A										
Sodium Hydroxide	30%	B	C	A	B	B	A	B	B	A	B	A	100	B	A	B	B	A	B*	A	A	A										
Sodium Hydroxide	50%	B	C	A	B	C	A	C	B	A	C	A	120	B	B	B	B	B	B*	A	A	A										
Sodium Hydroxide	70%	B	C	A	C	C	A	C	C	A	C	A	-	C	B	C	B	B	B*	A	A	A										
Sodium Hypochlorite	-	C	C	C	C	C	C	B	C	C	C	B	120	C	C	C	C	B	A	A	A	A										
Sodium Hyposulfite	-	-	C	C	-	B	-	B	-	-	C	A	-	A	B	A	B	A	A	-	A	A										
Sodium Metaphosphate	-	C	C	C	A	A	-	-	-	A	C	-	150	A	A	B	A	A	A	A	A	A										
Sodium Nitrate	Sat'd.	A	B	A	C	C	A	B	A	-	B	A	150	A	B	B	B	C	A	A	A	A										
Sodium Nitrite	-	B	B	B	-	A	-	B	-	-	B	-	150	A	A	A	A	A	A	-	A	A										
Sodium Perborate	-	B	C	A	B	B	A	B	-	A	-	-	-	A	B	B	B	B	A	A	A	A										
Sodium Peroxide	10%	C	C	A	A	A	A	B	-	A	C	-	150	A	A	C	B	C	B*	A	A	A										
Sodium Phosphate	Acid	B	B	A	-	A	A	-	-	A	B	-	150	-	-	-	-	-	A	-	A	A										
Sodium Phosphate	Alkaline	B	B	A	-	A	A	-	-	A	B	-	150	-	-	-	-	-	A	-	A	A										
Sodium Phosphate	Neutral	B	B	A	-	A	A	-	-	A	B	-	150	-	-	-	-	-	A	-	A	A										
Sodium Silicate	-	A	A	A	A	A	A	B	A	A	B	A	150	B	A	A	A	A	A	A	A	A										
Sodium Sulfate	Sat'd.	A	B	A	B	C	A	B	-	A	B	-	150	B	A	A	B	A	A	A	A	A										
Sodium Sulfide	Sat'd.	B	B	A	B	C	A	C	A	-	C	A	150	A	A	A	B	A	A	A	A	A										
Sodium Sulfite	Sat'd.	B	C	B	B	A	A	B	A	C	C	-	150	A	A	A	B	A	A	A	A	A										
Sodium Thiosulfate	-	C	C	B	A	A	-	A	A	C	C	A	150	A	B	A	B	A	A	-	A	A										
Sour Crude Oil	-	A	A	A	-	A	A	-	-	-	-	-	150	C	C	C	-	-	C	-	-	-										



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LEGEND:	METALS										COATING		SEATS									
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS	304 SS	316 SS	630 SS	HASTELLOY C	TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)	NATURAL RUBBER	MQ (SILICONE)	FKM (VITON)	FFKM (KALREZ)	PTFE	
A Excellent																						
B Good																						
C Poor Not Recommended																						
- No data available																						
Soybean Oil	-	A	B	A	A	A	A	A	A	-	B	-	-	C	A	C	C	A	A	A	A	A
Stannic Chloride	Sat'd.	C	C	C	C	C	C	B	A	-	C	-	150	A	A	C	A	B	A	A	A	A
Stannous Chloride	15%	C	C	-	C	A	-	B	A	B	C	-	150	C	A	B	A	B	A	A	A	A
Starch	-	B	A	A	A	A	A	-	-	-	B	A	50	A	A	A	A	A	A	-	A	A
Steam (Low Pressure)	-	A	A	A	-	A	A	-	-	A	A	-	-	-	-	-	-	-	B*	-	A	A
Steam (Medium Pressure)	-	A	A	A	-	A	A	-	-	B	A	-	-	-	-	-	-	-	B*	-	A	A
Steam (High Pressure)	-	B	A	A	-	A	A	-	-	-	C	-	-	-	-	-	-	-	C	-	B*	A
Stearic Acid	-	C	C	A	-	A	A	A	-	A	C	A	50	C	B	B	B	A	A	-	A	A
Stoddard's Solvent	-	A	A	-	-	A	A	-	-	-	-	-	150	C	A	C	-	-	A	-	-	-
Styrene	-	B	C	A	A	A	-	C	-	-	B	B	-	C	C	C	C	C	B*	A	A	A
Succinic Acid	-	A	A	A	-	A	A	B	-	-	C	-	100	A	A	A	B	C	B*	-	A	A
Sugar	-	B	A	A	A	A	A	A	-	-	-	-	-	A	A	A	A	A	-	-	A	A
Sulfamic Acid	20%	C	C	-	-	A	-	-	-	-	B	-	-	A	C	B	-	-	C*	-	-	-
Sulfate Liquors	6%	A	C	-	B	B	-	B	-	A	C	-	-	A	A	B	B	B	A	A	A	A
Sulfite Liquors	6%	-	C	-	-	A	-	-	-	-	-	-	-	B	C	B	-	-	A	-	A	A
Sulfur	-	B	C	B	-	A	-	-	-	A	C	-	-	A	C	A	-	-	A	-	A	A
Sulfur Chloride	-	C	C	C	C	C	C	A	C	-	C	C	25	C	C	C	C	C	A	A	A	A
Sulfur Dioxide	Dry	A	A	A	C	A	A	B	A	A	A	C	100	A	C	C	C	B	B*	A	A	A
Sulfur Dioxide	Wet	-	C	C	C	B	C	C	A	-	B	C	50	A	C	B	C	B	B*	A	A	A
Sulfur Trioxide	Gas	-	-	C	-	B	B	-	-	A	-	-	-	B	C	C	-	-	A	-	-	-
Sulfuric Acid	<30%	C	C	C	C	A	B	C	C	C	C	C	100	B	B	C	C	C	A	A	A	A
Sulfuric Acid	50%	C	C	C	C	A	C	C	C	C	C	C	120	B	C	C	C	C	A	A	A	A
Sulfuric Acid	70%	C	C	C	C	B	C	C	C	C	C	C	120	B	B	C	C	C	A	A	A	A
Sulfuric Acid	90%	C	C	C	C	C	C	C	C	C	C	C	120	C	C	C	C	C	A	A	A	A
Sulfuric Acid	100%	C	C	C	C	C	C	C	C	C	C	C	120	C	C	C	C	C	A	A	A	A
Sulfuric Acid	Fu-ming	C	C	C	C	C	C	C	C	C	C	C	120	B	C	C	C	C	A	A	A	A
Sulfuric Ether	-	-	C	C	-	B	-	B	-	A	-	A	-	C	C	C	C	C	C	-	A	A
Sulfurous Acid	Sat'd.	C	C	B	C	B	A	B	A	C	C	C	100	B	C	C	B	B	C	A	A	A
Tall Oil	-	B	B	A	-	A	A	-	-	-	B	-	150	C	A	C	-	-	A	-	A	A
Tannic Acid	10%	B	C	B	C	A	A	B	A	A	C	-	100	A	A	A	A	B	A	A	A	A
Tanning Liquors	-	-	-	-	A	A	-	B	A	-	-	-	100	B	C	A	C	B	A	-	A	A
Tar	-	A	A	A	-	A	A	A	-	A	A	-	150	C	C	C	C	B	A	-	A	A
Tartaric Acid	-	C	C	A	C	C	A	B	B	B	C	A	100	B	A	A	A	A	B*	A	A	A
Tetrachloroethane	-	-	B	-	B	A	-	A	A	-	-	-	-	C	C	C	C	C	A	A	A	A
Tetrachloroethylene	-	-	A	-	-	A	-	-	-	-	-	-	25	C	C	C	C	C	A	A	A	A
Tetraethyl Lead	-	B	B	B	-	A	-	-	-	-	C	A	-	C	C	C	C	C	A	-	A	A
Tetrahydrofuran	-	-	A	B	A	A	-	A	A	-	-	A	-	C	C	C	C	C	C	A	A	A
Thionyl Chloride	-	-	C	C	-	C	-	-	-	-	C	C	50	C	C	C	C	C	B*	-	A	A
Thread Cutting Oils	-	A	A	A	-	A	A	-	-	-	-	-	150	-	-	-	-	-	-	-	A	A
Titanium Tetrachloride	-	-	C	-	-	B	-	-	-	-	-	-	-	C	C	C	-	-	A	-	-	-
Toluene (Toluol)	-	A	A	A	A	A	A	A	A	A	A	A	50	C	C	C	C	C	B*	A	A	A

Technical data are purely indicative. Notes: **B*** please contact our technical office **C*** please contact our technical office

LEGEND: A Excellent B Good C Poor Not Recommended - No data available	METALS											COATING		SEATS							
	Concentration	DUCTILE IRON	CARBON STEEL	400 SERIES SS			630 SS	HASTELLOY C	TITANIUM	MONEL	ALU-BRONZE	RILSAN	ECTFE (HALAR) [°C max]	EPDM	NBR (BUNA-N)	CR (NEOPRENE)	NATURAL RUBBER	MQ (SILICONE)	FKM (VITON)	FFKM (KALREZ)	PTFE
				304 SS	316 SS																
Tomato Juice	-	C	C	-	-	A	A	-	-	-	-	100	A	A	A	-	-	A	-	A	
Transformer Oil	-	A	A	B	A	A	A	A	-	-	B	A	100	C	A	B	C	B	A	A	A
Transformer Oil DTE/30	-	A	A	-	-	A	A	-	-	-	-	50	-	-	-	-	-	-	-	-	A
Tributyl Phosphate	-	A	A	B	-	A	-	B	-	-	B	25	A	C	C	B	-	C	-	A	
Trichloroacetic Acid	50%	C	C	C	C	B	-	B	C	-	C	50	B	C	C	C	C	C	C	A	A
Trichloroethylene	-	B	B	A	B	B	A	A	A	A	A	25	C	C	C	C	C	C	A	A	A
Triethanolamine	-	C	C	C	-	A	-	-	-	-	-	25	B	C	B	-	-	C	-	-	
Triethylamine	-	-	C	B	A	A	-	-	-	-	A	50	A	C	A	B	C	C	A	A	
Trinitrotoluene	-	-	C	B	-	A	-	-	-	-	-	-	C	C	B	C	-	B*	-	A	
Trisodium Phosphate	-	B	C	B	-	A	A	B	-	-	-	150	A	C	A	A	A	A	B	-	A
Tung Oil	-	B	B	B	-	A	A	-	-	-	B	-	C	A	B	-	-	A	-	-	
Turpentine	-	A	B	A	A	A	A	B	B	B	A	150	C	A	C	C	C	C	B*	A	A
Turpentine Oil	-	-	C	B	-	A	-	-	-	-	-	-	C	B	C	C	C	A	-	A	
Urea	-	C	B	C	B	B	A	B	A	-	B	100	A	B	B	A	B	A	-	A	
Urine	-	C	B	A	A	A	A	-	-	-	-	50	B	B	C	C	-	A	-	A	
Varnish	-	C	C	B	-	A	A	-	-	-	B	-	C	C	C	-	-	A	-	A	
Vaseline (Petroleum Jelly)	-	A	A	A	-	A	A	A	-	-	A	50	C	A	B	C	B	A	-	A	
Vegetable Oil	-	A	A	A	-	A	A	-	-	-	-	-	C	A	C	-	-	A	-	A	
Vinegar	-	C	C	A	A	A	A	A	A	A	C	100	A	B	B	B	A	A	A	A	A
Vinyl Acetate	-	B	C	A	B	B	A	-	-	-	-	50	B	C	C	C	C	C	A	A	A
Vinyl Chloride	-	-	A	C	B	B	-	A	A	-	-	-	B	C	C	C	-	B*	A	A	A
Water (Acid Mine)	-	C	C	A	B	B	A	A	A	-	C	150	A	A	C	B	B	A	-	A	A
Water (Deionized)	-	C	A	B	B	A	A	A	A	A	C	150	B	B	A	A	-	A	-	A	A
Water (Distilled)	-	C	C	A	A	A	A	A	A	A	B	150	A	A	A	A	C	A	-	A	A
Water (Potable)	-	B	B	A	-	A	A	-	-	-	A	150	-	-	-	-	-	A	-	A	A
Water (Salt)	-	C	C	B	B	A	A	A	A	-	B	150	A	A	A	A	B	A	-	A	A
Water (Sea)	-	C	C	B	C	C	A	A	A	A	B	150	A	A	B	B	B	A	A	A	A
Water (Sewage)	-	-	C	B	-	B	-	A	-	-	C	-	-	-	-	-	-	A	-	A	A
Water (Soft)	-	C	B	A	-	A	A	A	-	-	A	150	A	A	A	A	A	A	-	A	A
Water (Swimming Pool)	-	-	C	B	-	A	-	A	-	-	A	150	A	C	-	-	-	A	-	A	A
Water (Waste)	-	B	B	B	-	A	-	-	-	-	B	150	-	-	-	-	-	A	-	A	A
Water + Carbon Dioxide	-	-	C	B	-	A	-	A	-	-	C	150	B	-	-	-	-	A	-	A	A
Whiskey	-	C	C	B	A	A	-	-	A	B	B	150	A	A	C	A	A	A	-	A	A
White Liquor	-	C	C	-	A	A	-	A	-	-	C	100	A	A	A	-	A	A	-	-	-
Wine	-	C	C	B	A	A	-	A	A	B	-	100	A	A	C	A	A	A	-	A	A
Wool Grease	-	-	A	A	-	A	-	A	-	-	A	-	C	A	B	B	B	A	-	A	A
Xylene (Xylol)	-	A	A	A	-	A	A	A	-	-	A	50	C	C	C	C	C	B*	-	A	A
Zinc Acetate	-	C	C	-	-	A	-	-	-	-	C	-	A	C	C	-	-	C	-	-	-
Zinc Chloride	-	C	C	C	B	B	B	B	B	C	C	150	A	A	A	A	B	A	A	A	A
Zinc Nitrate	-	-	C	C	-	A	A	-	-	-	C	150	A	A	A	-	-	A	-	A	A
Zinc Sulfate	-	C	C	A	C	A	A	A	A	A	B	150	A	A	A	B	A	A	A	A	A



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Notes:

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