

CHEMICAL RESISTANCE CHART

CHEMICAL RESISTANCE DATA

These recommendations are based upon information from material suppliers and careful examination of available published information and are believed to be accurate. However, since the resistance of metals, plastics and elastomers can be affected by concentration, temperature, presence of other chemicals and other factors, this information should be considered as a general guide rather than an unqualified guarantee. Ultimately, the user must determine the suitability of the selection used in various solutions.

All recommendations assume ambient temperatures unless otherwise noted.

RATINGS — CHEMICAL EFFECT
A — No effect—Excellent
B — Minor effect—Good
C — Moderate effect—Fair
D — Severe effect—Not recommended

FOOTNOTES
 1. P.V.C. — Satisfactory to 72° F.
 2. Polypropylene — Satisfactory to 72° F.
 3. Polypropylene — Satisfactory to 120° F.
 4. Buna-N — Satisfactory for "O" Rings
 5. Polyacetal — Satisfactory to 72° F.
 6. Ceramag — Satisfactory to 72° F.

The ratings for these materials are based upon the chemical resistance only. Added consideration must be given to selections when the chemical is abrasive, or viscous in nature.

	302 Stainless Steel	304 Stainless Steel	316 Stainless Steel	440 Stainless Steel	Aluminum	TITANIUM	HASTELLOY C	Cast Bronze	Brass	Cast Iron	Carbon Steel	KYNAR	PVC (Type 1)	Tygon (E-3606)	Teflon	Noryl	Polyacetal	Nylon	Cyclocac (ABS)	Polyethylene	POLYPROPYLENE	RYTON	CARBON	CERAMIC	CERAMAGNET "A"	VITON	BUNA N (NITRILE)	Silicon	Neoprene	Ethylene Propylene (EPM)	Rubber (Natural)	Epoxy	
Acetaldehyde ⁵	A	A	A		B	A	A	D			C		D	D	A		A	A	D	C	B	A	A	A		D	B	B	D	B	C	A	
Acetamide		B	A								C						B							A		A	A		A	A	D	A	A
Acetate Solvent ²	A	B	A	B	B			A	C	B	A		B	D	A			A		B	D		A	A		D	D		D			A	
Acetic Acid, Glacia ¹		B	A	A	B	A	A	C	C	D	A		C	B	A	C	D	D	D	B	B	A	A	A		D	D	B	C	B	C	B	
Acetic Acid 20%		B	A			A	A	C				A	B		A	A		D			A	A		A		A	C		C			B	
Acetic Acid 80%		B	A			A	A	C				A	D		A	B		D			B			A		A	C		D			B	
Acetic Acid		B	A	B	B	A	A	C	C	D	C	B	A	B	A	A	D	D	C	B	A	A	A	A		C	C		C	B	C	A	
Acetic Anhydride	B	A	A	B	B	A	A	C	D	B	D	D	D	D	A	D	D	D	D	A	A	A	A	A		D	A	C	B	B	C	A	
Acetone ⁶	A	A	A	B	A	A	A	A	A	A	A	D	D	D	A	D	B	A	D	C	B	A	A	A	A	D	D	B	C	A	D	B	
Acetyl Chloride		C	A					D							A									A		A						A	A
Acetylene ²	A	A	A	A	A	B	B		A	A		B					A	A			D	A	A	A		A	A	C	B	A	C	A	
Acrylonitrile	A	A	C		B	B	B	A		C							B		D		B	A	A	A		C	D		D	D		A	
Alcohols: Amyl	A	A	A		C	A	A	A	B	C	C	A	A	B	A	C	A	A	B	B	B	A	A	A		A	A	D	A	A	C	A	
Benzyl		A	A		B	A	A	A	C				D	B		A	A	A	D	D	A		A	A		A	D		B	B	D	A	
Butyl	A	A	A		B	B	A	B	C	C	C	A	A	B	A	A	A	A		B	B	A	A	A		A	A	D	A	A	A	A	
Diacetone ²		A	A		A	A	A	A	C		A		D			A	A	A			D		A	A		D	D		D	A	D	A	
Ethyl		A	A	A	B	A	A	A	C	A	A		A	C		A	B	A	B	B	A		A	A	A	A	A	B	A	B	A	A	
Hexyl		A	A		A	A	A	A	C		A					A	A	A			A		A	A		A	A	D	B	A	A	A	
Isobutyl		A	A		B	A	A	A	C		A					A	A	A	B		A		A	A		A	C	B	A	A	A	A	

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 5. Polyacetal — Satisfactory to 72° F.
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	302 Stainless Steel	304 Stainless Steel	316 Stainless Steel	440 Stainless Steel	Aluminum	TITANIUM	HASTELLOY C	Cast Bronze	Brass	Cast Iron	Carbon Steel	K'VAR	PVC (Type 1)	Tygon (E-3606)	Teflon	Noryl	Polyacetal	Nylon	Cyclocac (ABS)	Polyethylene	POLYPROPYLENE	RYTON	CARBON	CERAMIC	CERAMAGNET "A"	VITON	BUNA N (NITRILE)	Silicon	Neoprene	Ethylene Propylene (EPM)	Rubber (Natural)	Epoxy	
Alcohols: Isopropyl	A	A	B	A	A	A	C	C	A						A	A	A				A	A	A	A	A	C	C	B	A	A	A		
Methyl ⁶	A	A	A	B	A	A	A	C	A	A		B		A	A	C	A	D	B		A	A	A	A	C	B		A	A	A	A		
Octyl	A	A	A	A	A	A	C		A						A	A	A					A	A		A	B		B	A	C	A		
Propyl	A	A	A	A	A	A			A	B	A		A	A	A	A					A	A	A		A	A	B	A	A	A	A		
Aluminum Chloride 20%	D	C	D	B	A	A	D		D	A		A	B		A	C	A		B	A	A	A	A		A	A		A	A	A	A		
Aluminum Chloride	C	D	C	D	C	A	C		D	B	A	A	A	A	A		D			A	A	A	A		A	A	C	A			A		
Aluminum Fluoride		D	C	D	D	B				A	A	A		A	A	C	D		B	A		A			A	A	C	A		C	A		
Aluminum Hydroxide ⁶		A	A	A	A			A		D	A		A		A	A	B	A		A	A	A	A		A	A		A		A	A		
Aluminum Potassium Sulfate (Alum), 10%		A		A	B				D	A		A		A			A			A		A	A		A			A		A	A		
Aluminum Potassium Sulfate (Alum), 100%		D	A	B	B		B	C		A		A	B	A	A	C	D		B	A		A	A		A	A		A		A	A		
Aluminum Sulfate		C	C	A	A	A	A	C	C	D	A	A	A	B	A	A	C	A		B	A	A	A		A	A		A	A	A	A		
Amines	A	A	A	A	B	A	B		A	B		C	A	A	B	D	A						A	A		D	D	C	B	B	C	A	
Ammonia 10%			A		A	A					D	A		A	A		A				A	A		A		A	D		A			B	
Ammonia, Anhydrous	A	B	A	A	B	B	A	D		D	B	D	A	B	A	A	D	A		B	A	B	C	A		D	B	B	A	A	D	A	
Ammonia, Liquids		A	A	A	D		B	D		A	A		A	B	A	A	D			D	A		A	A		D	B	B	A	A	D	A	
Ammonia, Nitrate		A	A	A	C			D		A			B	B		A	C				A		A	A		A		C				A	
Ammonium Bifluoride		C	A		D		B						A			A	D				A		A		A	A		A				A	
Ammonium Carbonate	B	A	A	A	C	A	B	B		C	B		A	B	A	A	D	A			A		A	A		B	D	C	A	A			A
Ammonium Casenite			A													A	D													A			A
Ammonium Chloride	C	A	C	A	C	D	A	D	C	D	D	A	A	B	A	A	B	A		B	A	A	A	A		A	A	C	A	A	A	A	
Ammonium Hydroxide	A	A	A	A	C	A	A	D	D	A	C		A	B	A	A	D	A	B	B	A	A	A		B	B	B	A	A	C	A		
Ammonium Nitrate	A	A	A	A	B	A	A	D	D	A	D		A	B	A	A	C	D		B	A	A	A		D	A	C	A	A	A	A		
Ammonium Oxalate		A	A	A		A					A						B						A			A		A				A	
Ammonium Persulfate		A	A	A	C	C	A	A		D	A	D	A		A	A	D	D			A		A		C	A		A	A	A	A		
Ammonium Phosphate, Dibasic	B	A	A	A	B	A	A	C			D		A		A	A	B	A		B	A		A	A		A	A	B	A	A	A	A	
Ammonium Phosphate, Monobasic		A	A	A	B	A	A	D			A		A	A	A	A	B	A		B	A		A	A		A	A	B	A	A	A	A	
Ammonium Phosphate, Tribasic	B	A	A	A	B	A	A	C		C	D		A		A	A	B	A		B	A		A	A		A	A	B	A	A	A	A	
Ammonium Sulfate	C	D	B	A	B	A	A	B	C	C	C	A	A	D	A	A	B	D		B	A	A	A		D	A	B	A	A	A	A		
Ammonium Thio-Sulfate			A		A				D	A							B						A	A		A		A				A	
Amyl-Acetate	B	A	A	C	B	A	A	C			C	C	D	D	A	D	A	B		D	D	A	A		D	D	D	D	A	D	A		
Amyl Alcohol		A	A		B	A	A	A			A	A	A	B	A	C	A	A		B	A		A	A		B	B	D	A	A	C	A	
Amyl Chloride		C	B		D		A	A			A	A	D	C	A	D	A	C		D	D		A	A		A	D	D	D	D	A		
Aniline	B	A	A	A	C	A	B	C			C	C	D	D	A	D	D	C	D	C	B	A	A		C	D	C	D	B	D	A		
Antifreeze		A	A		A	A	B	B	B	C			A	B	A	A	A	A	B	B	A	A	A	A		A	A	C	A	A	A	A	
Antimony Trichloride		D	D		D	C	A						A	A	A			D		A			A		A			C		A	A		
Aqua Regia (80%, HCL, 20%, HNO)		D	D		D	A	D	D				C	D	D	A	D	D	D		D	C			D		C	D	C	D	D	D	D	
Arochlor 1248											A					D							A			A	D		D	B	D	A	
Aromatic Hydrocarbons			A		A			A		A	A		D			D	A			C			A			A	D		D	D	D	A	
Arsenic Acid	B	A	A		D			D	B	D	D	A	A	B	A	A	D	A		B	A		A	A		A	A		A		C	A	
Asphalt		B	A		C			A		C			A				A	A			A	A		A	A	A	B	C	B	D	D	A	
Barium Carbonate	B	A	A	A	B	A	A	B		B	B		A	A	A	A	A	A		B	A		A	A		A	A		A		A	A	
Barium Chloride	C	D	A	A	D	A	A	B			C	A	A	B	A	A	A	B		B	A	A	A		A	A	B	A	A	A	A		
Barium Cyanide			A					C			A						B			B			A			A	C		A	A		A	
Barium Hydroxide	B	C	A	A	D	B	B	B		C	C	A	A		A	A	D	A		B	A	A	A		A	A	C	A	A	A	A	A	

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Barium Nitrate	A	A			A		D	A	A			B			A	A						A	A		A	A		A	A			B	
Barium Sulfate	B	A	A	A	D	A	A	C	C	C	A	A	A	A	A	A	A	A		B	A	A	A	B		A	A	D	A	A		B	
Barium Sulfide	B	A	A		D	B		C	C	C		A	A	A	A	A	A	A		B	A		A	A		A	A	C	A	A	A	A	
Beer ²	A	A	A		A	A	A	A	B	D	D	A	A		A	A	B	D	B	B	D		A	A		A	D	C	A	A	A	A	
Beet Sugar Liquids	A	A	A		A			A	B	A			A		A	A	B	A	B		A		A	A		A	A		B	A	A	A	
Benzaldehyde ³	A	A	A		B	A	A	A		B	A	C	D	D	A	D	A	C	D	D	D	A	A	A		D	D	B	D	A	D	A	
Benzene ²	B	A	A	A	B	A	B	B	A	B	C	B	D	C	A	D	A	A	D	D	D	A	A	A	A	A	D		D	D	D	A	
Benzoic Acid ²	B	A	A	A	B	A	A	B		D		A	A	B	A	A	B	D		B	D		A	B		A	D		D	D	D	A	
Benzol		A	A		B	A	A	B	A				D		A	D	A	A			A		A	A	A	D	D		D			A	
Borax (Sodium Borate)		A	A	A	C	B	A	A	B	A	C	A	A	A	A	A	A	A		B	A	A	A	A	A	A	B	C	A	A	C	A	
Boric Acid	B	A	A	A	B	A	A	B	C	D		A	A	B	A	A	A	A		B	A		A	A	A	A	A		A	A	A	A	
Brewery Slop			A					A	A							A							A	A		A	A		A			A	
Bromine ² (wet)	D	D	D	D	D	A	A	C		D	D	A	B	B	A	D	D	D	D	D	D	D	D	A	D	A	D	D	D	D	D	C	
Butadiene	A	A	A		A			C	A	C	C	A	A		A		A	A				B	A	A		A	A		B	A		A	
Butane ^{2 1}	A	A	A		A			A	A	C	C	A	A	C	A	D	A	A	B	C	D	A	A	A		A	A	D	B	D	D	A	
Butanol		A	A		A			A	A						A																		
Butter		B	A		A			D		D			B		B	A			B				A	A		A	A		B	A	D	A	
Buttermilk	A	A	A	A	A			D		D			B	A	A	A	A	A	B				A	A		A	A		A			D	A
Butylene	A	B	A		A			A	A	A	A		B		A		A					A	A	A		A	B		D	D		A	
Butyl Acetate ¹			C		A			A	A		A	C	D	D	A	D	A			C	D	A	A	A		D	B	D	D	B	D	A	
Butyric Acid ¹	B	B	A	A	B	A	A	C		D		A	B		A	A	C	D	D		A		A	D		D	D		D	B		A	
Calcium Bisulfate	C	D	A		D			D	D	D			A	A	A			A								A	A	C	C		A	A	
Calcium Bisulfide			B		C	A	A	C					A		A	A	D	A		B	A		A	A		A	A		A	D		A	
Calcium Bisulfite		B	A		C	A	A	C				A	A		A	A		A			A		A		A	A		A				A	
Calcium Carbonate	B	A	A	A	C	A	A	C		D			A	A	A	A	A	A		B	A		A	A		A	A		A			A	A
Calcium Chlorate		B	A			B	B	C					A	A	A			A		A			A		A			A				A	A
Calcium Chloride	C	A	D	C	C	A	A	B		C		A	A	A	A	A	D	A	B	B	A	A	A	B	A	A	B	D	A	A	A	A	
Calcium Hydroxide	B	A	A		C	A	A	B					A	A	A	A	B	A		B	A		A	A	A	A	A	C	A	A	A	A	
Calcium Hypochlorite	D	D	C	C	C	A	B	D		D		A	D		A	A	D	D		B	A		A	A		A	B	C	D	A	C	A	
Calcium Sulfate	B	A	A	A	B	A	B	B				A	A	A	A	A	A	A	C	B	A	A	A	A		A	A		D		C	A	
Calgon		A	A					C		D						A	B				A		A	A		A	A		A			A	
Cane Juice ²		A	A		B			B	C	A			A			A	A				D		A	A		A	A		A			A	A
Carbolic Acid (See Phenol)																																	
Carbon Bisulfide ²	B	A	A	A	A			C		B			D	D		A	A			D		A	A	A	A	D		D	D	D	A	A	
Carbon Dioxide (wet)		A	A		C			A	C	C	C				A								A	A									
Carbon Disulfide ²		B	A		C			C	C	B	C		D	C	A	D	A	A		D	D	A	A	B		A	D		D	D	D	A	
Carbon Monoxide		A	A		A								A			B	A	A		B	A		A	A		A	A	B	B	A	C	A	
Carbon Tetrachloride ^{2 1}	B	B	B	A	C	A	A	C	A	C	D	A	C	C	A	D	A	A	D	D	D	C	A	A	A	A	C	C	D		D	C	
Carbonated Water	B	A	A	A	A			B		D			A			A	A	A			A		A	A		A	A		A			A	A
Carbonic Acid	B	A	B	A	A			A	B	D		A	A		A	A	A	A		B	A		A	A		A	B	B	A	A	A	A	
Catsup		A	A	A	D			C		D			A			A	B	A	B		A		A	A		A	A		C			A	
Chloroacetic Acid ²	D	D	D	D	C	A	A	D		D		D	A	D	A		D	D		D	D		A	A		D	D		D	B	D	B	
Chloric Acid		D	D										D		A												D		D			D	
Chlorinated Glue		A	A		D			C		D						C		C	D					A	A	C		D	B	D		A	

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Chlorine, Anhydrous Liquid	D	D	D	D	D	A	D		C				D	B	A	A	D	D		D	D	C	A	D		A	D		D	B	D	B	
Chlorine (dry)	B	A	A		D	D	A	A	B	A					A							C	A	A		D			D		D	D	
Chlorine Water	D		D		D	A	B	D	D	D		A	A		A	C		D			D	C	C	A		A	D	C	D				
Chlorobenzene (Mono)	A	A	A		B		A	B		B	C	A	D	D	A	D	A	A	D	D	D	D	A	A	A		A	D		D	D	D	A
Chloroform	A	A	A	A	D	A	A	B		D	C	C	D	C	A	D	A	C	D	D	D	D	C	A	A	A	A	D	D	D	D	D	A
Chlorosulfonic Acid ¹	D	D		D	D	A	B	D			D	D	C	C	A	D	D	D		D	D	D		C		D	D	D	D	D	D	C	
Chlorox (Bleach)		A	A		C		A	A		D	C		A	B	A	A	D	D	B		D	C	A	A		A	C		B	B	D	A	
Chocolate Syrup		A	A		A					D						A	A	A			A			A		A	A		A		D	A	
Chromic Acid 5%		A	A	B	C	A	A	D	D	D			A	B		C	D	D	B	B	A	A	D	C		A	D	C	D	A	B	B	
Chromic Acid 10%		B				A	A		D			A	A		A	A		D			A			A		A	D		D			C	
Chromic Acid 30%		B				A	A		D			B	A		A	D		D			A			A		A	D		D			D	
Chromic Acid 50%	C	B	B		C	A	A	D	D	D		C	B	B	A	D	D	D	C	C	B	B	D	A		A	D		D	A	D	C	
Cider		A	A	A	B			A		D			A			A	B			B			A	A		A	A		A			A	
Citric Acid		A	A	A	C	A	A	D	C	D		A	A		A	A	B	C	C	B	B		A	A	B	A	D	C	A	A	A	A	
Citric Oils		A	A		C			B								A	B				A		A	A		A	A	C	D			A	
Coffee	A	A	A	A	A			B		C					A	A	A	A			A		A	A		A	A		A		A	A	
Copper Chloride	C	D	D	B	D	A	A	D		D		A	A	B	A	A	B	D		B	A	A		A		A	A		A	A	A	A	
Copper Cyanide		A	A	A	D	A	A	C		D		A	A		A	A	B	A		B	A	A	A	A		B	B		A	A	A	C	
Copper Fluoborate		D	D		D		B	D		D			A		A		B			A			A			A	B		A		A	A	
Copper Nitrate	B	A	A	B	D	A	A	D				A	A		A	A	B	D		B	A		A	A		A	A		A			A	
Copper Sulfate (5% Solution)		A	A	A	D	A	A	D	D	D			A		A	A	B	D		B	A	A	A	A		A	A	C	A		C	A	
Copper Sulfate	B	B				A	A	C	D			A	A		A	A		C			A			A		B	B		A	A		A	
Cream		A	A		A			C		D						A	A	A			A		A	A		A	A		C			A	
Cresols ²		A	A		B			D	C				D	D			D		D	D	C	A	A	A		D	D	D	D	D	D	A	
Cresylic Acid	B	A	A		C	A	B	C				B	B	D	A		D	D		C			A	A		A	D		D	D	D	A	
Cyclohexane		A			A	A		A			A			D		D	A				D	A	A	A		A	A	D	D	D	D	A	
Cyanoic Acid		A															D										C		D			A	
Detergents		A	A		A			A			A		A			A	B	A	B	B	A	A	A	A		A	A		B	A	C	A	
Dichlorethane		A	A			A							D	D	A			A		D						B		D		D	A		
Diesel Fuel	A	A	A		A			A		A	A					D	A				D	A	A	A		A	A		D	D	D	A	
Diethylamine	A	A			A			A					D		A	B	D				C		A	A		D	B		B	B	C	A	
Diethylene Glycol		A						A								A	A	A	B	B			A	A		A	A	C	A	A	A	A	
Diphenyl Oxide		A						A									A						A	A		A	D		D	D	D	A	
Dyes		A	A		B			C								A	A									A			C			A	
Epsom Salts (Magnesium Sulfate)	B	A	A	A	A	A	B	B					A			A	A				A		A	A		A	A		A		C	A	
Ethane	A	A			A			A								D	A						A	A		A	A		B	D	D	A	
Ethanolamine		A	A								C						D						A	A	A		D	B	C	B		C	A
Ether ³	A	A	A	A	A		B	B	A		B		D	C		D	A	C					A	A	A	A	C	D		D	C	D	A
Ethyl Acetate ²		A	A		B		B	B			C	D	D	D	A	D	A	A	D	C	C	A	A	A		D	D	C	D	B	D	A	
Ethyl Chloride		A	A	A	B	A	B	B		C	D	A	D	D	A	D	A	A		D	D	A	A	A		A	D	D	C	A	A	A	
Ethyl Sulfate		D															B						A	A		A	A					A	
Ethylene Chloride ²		A	A		C	B	B	A		C	C		D		A	D	A		D		D	A	A	A		A	D	D	D	C	D	A	
Ethylene Dichloride		A	A		D	A	B	C			C		D	D	A	D	A	A		D	A	A	C	A		A	D	D	D	C	D	A	
Ethylene Glycol ⁴		A	A		A		A	B	B	B	C	A	A	B	A	A	A	A	B	B	A	A	A	A	A	A	A	C	A	A	A	A	

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Ethylene Oxide		A	A	A	A	A	A	A					D		A	A	A	A				A	A		D	D	D	D	C	D	A				
Fatty Acids		A	A	B	A	A	C	D				A	A	B	A	B	A	A		B	A	A	A	A		A	C	C	B	C	C	A			
Ferric Chloride		D	D	D	D	A	B	D	D			A	A	B	A	A	B	D		B	A	A	A	A		A	D	C	B	A	A	A			
Ferric Nitrate		A	A	A	D	A	A	D				A	A		A	A	B	D		B	A	A	A	A		A	A	D	A	A	A	A			
Ferric Sulfate		A	C	A	D	A	A	D	D			A	A	B	A	A	B	A	C		A	A	C	A		A	B	C	A		A	A			
Ferrous Chloride		D	D		D	A	B	C		D		A	A	B	A	A	B	D		B	A	A	A	A		A	B	C	A		A	A			
Ferrous Sulfate	B	A	C		D	A	B	C		D	D	A	A	B	A	A	B	D		B	A	A	A	A		A	B		A		A	A			
Fluoboric Acid		D	B		D	A			D			A	A	B	A	B	B	C		B	A		A	D		A	B		A			A			
Fluorine	D	D	D		D	D	A	D		D	D		C		C			D		C			D									D			
Fluosilicic Acid			B		D	D	B			D		A	A	B	A	A	B	D		B	A		A	D		B	A		A			C			
Formaldehyde 40%			A		A	A						B	B		A	A		D			A	A		A		D	B	B	A			A			
Formaldehyde	A	A	A		A	A	B	A	B	D	A		A	B	A	D	A	A		B	A	A	A	A		D	C	B	D	B	C	A			
Formic Acid ⁶	C	A	B	B	D	C	A	C	C	D	D	A	D	B	A	A	D	D		B	A	A	A	A	B	B	D	C	D	A	C	B			
Fruit Juice	A	A	A	A	B			B		D	D		A		D	A	B	A		B	A		A	A	A	A	A		A			A			
Fuel Oils	A	A	A		A	A	A	B		C	B	A	A		A	A	A	A		D	B	A	A	A		A	A	C	B	D	D	A			
Furan Resin		A	A	A				A		A	A				A		A				A		A		A	D		D			D	A			
Furfural ¹	A	A	A		A		B	A			A	D	D		A	D	B	A	D	D	D	A	A	A		D	D	D	D	B	D	A			
Gallic Acid	B	A	A		A		A	A		D	D		A	A	A			A								B	A								
Gasoline ^{1 4}	A	A	A	A	A	D	A	A		A	A	A	C		A	D	A	A	D	D	C	A	A	A	A	A	A	D	D	C	D	A			
Gelatin	A	A	A	A	A		A	A	C	D	D		A		A	A	A	A			A		A	A		A	A		A	A	A	A			
Glucose	A		A		A			A	A	B	B		A	B	A	B	A	A	B	B	A		A	A		A	A	B	A	A	A	A			
Glue P.V.A. ¹	B	B	A		B	A		A			A		A	B	A		A	A				A	A		A	A		A				A			
Glycerine	A	A	A	A	A	A	A	A	B	B	B	A	A	B	A	A	A	A	C		A		A	A		A	A	B	A	A	A	A			
Cycolic Acid						A							A		A	C				B	A	A	A			A	A		A			A			
Gold Monocyanide			A					A	D							A						A	A		A	A		A				A			
Grape Juice		A	A	B				B	D				A			A	B		B	B			A	A		A	A		A			A			
Grease ⁴	A	A	A		A			B		A	A				A		A	A					A	A		A	A		D			A			
Heptane ¹	A		A		A	A				B	A	A		A	D	A	A	C	D	D	A	A	A		A	A		B	D			A			
Hexane ¹	A	A	A		A	A	B			B	A	C		A	D	A	A	D		C	A	A	A		A	A	B	B	D	D		A			
Honey		A	A		A			A		A			A		A	A	A	B			A		A	A		A	A		A			A			
Hydraulic Oils (Petroleum) ¹	A	A	A		A			B		A	A				A		A			D		A	A		A	A		B	D	D		A			
Hydraulic Oils (Synthetic) ¹		A	A		A			A		A							A	A			D		A	A		A	C	D				A			
Hydrazine		A	A						C								D						A			A	B	D	B	A	C	A			
Hydrobromic Acid 20%			D		A	A						A	A		A	A		D			A		B		A	D		C				B			
Hydrobromic Acid ⁴	D	D	D	D	D	A	A	D		D	D	A	A	B	A	C	D	D		B	B		A	A		A	D	D	D	A	A	A			
Hydrochloric/Muratic Acid (Dry gas)	D	C	A		D		A			D			A		A								A									A	A		
Hydrochloric/Muratic Acid (20%) ⁴		D	D	D	D	C	B	D		D		A	A	B	A	A	D	D	B	A	A	D	A	A	D	A	C		C	A	C	A			
Hydrochloric/Muratic Acid (37%) ⁴		D	D	D	D	C	B	D		D		A	A	B	A	A	D	D	C	A	A	D	A	C	D	A	C	C	C	C	D	A			
Hydrochloric/Muratic Acid (100%)		D	D		D	D	C	D		D			A	A	A			D		A			A	C		C	D		C			A	A		
Hydrocyanic Acid	A	A	A	C	A	A	A	D	D		C		A	B	A	A	B	A		B	A		A	A		A	C		B			A	A		
Hydrocyanic Acid (Gas 10%)		D	D										A		A																	C	A	C	A
Hydrofluoric Acid (20%) ¹		D	D	D	D	D	B	D		D			D	B	A	A	D	D		C	A	C	B	C	D	A	D		C	A	C	B			
Hydrofluoric Acid (75%) ^{1 2}		C	D		D	D	C	D		D		A	C	B	A	D	D	D		C	B	C	D	D	D	A	D	D	D	C	C	C			
Hydrofluoric Acid 100%	D	D	D		D	D	B	D		D	D		C	D	A					D		C	D	D		D		D				D	A		

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Hydrofluosilicic Acid (20%)		D	D		D	D	B	A		D			D		A	B	D	D			A	A	D		A	B		B	A	A	C		
Hydrofluosilicic Acid		D	D		C		C	D					C		A								A					D	A				
Hydrogen Gas	A	A	A		A			A		B	B	A	A		A											A						A	
Hydrogen Peroxide 10%		C	C		A	C	A	D	D	D			A	A	A			D		A		B	A	A		A		D		C	D		
Hydrogen Peroxide 30%			B			B	A		D				A	A			D				A	C				A	D		C		B		
Hydrogen Peroxide		A	B	A	A	B	A	D	D	D	D	C	A	C	A	B	D	D		B	A	C		A	A	A	D	C	D	C	C	A	
Hydrogen Sulfide, Aqueous Solution		D	A	C	C	A	A	D	C	D		A	A	B	A	A	D	D		B	A	A	A	A	A	D	C		B	A	D	A	
Hydrogen Sulfide (dry)	A	C	A		D		A	D	C	B	B		A		A			D				A		A		D					A	A	
Hydroxyacetic Acid (70%)					D	B							A				D						A	A	A	A	A		A	A		A	
Ink	A	A	A		C			C		D	D					B	A	A		B			A	A	A	A	A		A			A	
Iodine		D	D	D	D	A	B	D		D			D	B	A	A	C	D	D	D	D	D		D	A		A	B	D	B	D	A	
Iodine (In Alcohol)			B			D	A						D		A	C		D				B			A		A	D		D			
Iodoform	B	C	A		A			C		C	B				A			A								A							
Isotane ²					A											D	A				D			A		A	A				D	A	
Isopropyl Acetate			B		C												A						A	A		D	D		D	B	D	A	
Isopropyl Ether ²	A		A		A			A			A				A	D	A				D		A	A		D	B		D	D	D		
Jet Fuel (JP#, JP4, JP5)	A	A	A		A			A		A	A	A	A		A	D	A	A			D	A	A	A		A	A	D	D	D	D	A	
Kerosene ²	A	A	A	A	A	A	A	A	A	A	B	A	A	D	A	D	A	A	B	D	D	D	A	A	A	A	A	A	D	D	A	D	A
Ketones	A	A	A		B	A	A	A		A	A	D	D	D	A	D	B	A		D	D	A	C	A		D	D		D	D	C	C	
Lacquers	A	A	A		A			A	C	C	C			D		C	A	A			A		A	A		D	D		D		D	A	
Lacquer Thinners			A			A	A		C				C		A	D		A			B			A		D		D	A				
Lactic Acid	A	A	B	C	C	A	A	D		D	D	C	A	B	A	A	B	C		B	A	A	A	A		B	B		A	B	A	A	
Lard	B	A	A	A	A			A		A	C		A				A	A	C		A		A	A		A	A	C	B		D	A	
Latex		A	A		A			A								A	A	A		B				A		A	A		C	A		A	
Lead Acetate	B	A	A		D	A	A	C			D		A	B	A	A	A	A		B	A		A	A		D	B		D	A	A	A	
Lead Sulfamate																A					A				A	B	C		A	D	C	A	
Ligroin ³			A					A								D	A				D			A		A	A		B	A	D	A	
Lime		A	A		C	A		A		A			A			A	D		C				A	A		A	A	C	B	D		A	
Lubricants		A	A		A	A	A	B					A		A		A	A	B		A	A	A	A		A	A	C	D		D	A	
Magnesium Carbonate		A	A	A			B						A			A	A			B	A			A		A		A	A		A	A	
Magnesium Chloride	B	B	B	A	D	A	A	B	C	D	C		A	B	A	A	A	A		B	A	A		A		A	A		A	A	A	A	
Magnesium Hydroxide	A	A	A		D	A	A	C	B	B	B	A	A		A	A	A	A		B	A	A	A	A		A	B		B		C	A	
Magnesium Nitrate		A	A	A		A	A						A		A	A	A	A		B	A			A		A	A		A			A	
Magnesium Oxide		A	A														A							A		A		A	A		A	A	
Magnesium Sulfate	B	B	A		B	A	B	B	B	C	B		A	B	A	A	A	A		B	A	A	A	A		A	A		A	D	C	A	
Maleic Acid	C	A	A	A	B	A	A	C			B		A	B	A	A	C	A			C			A	A		A	D		A	D	D	A
Maleic Anhydride							A										C							A	A		A	D		D		D	A
Malic Acid	B	A	A		C		A	D			D		A		A			A						A		B		A		A			
Mash		A	A					A								A	A							A	A		A		A			A	
Mayonnaise	A	A	A		D			D		D	D				A	A	A	A	B		A			A	A		A	A				A	
Melamine		D	D					D									D							A	A		C					A	
Mercuric Chloride (Dilute Solution)	D	D	D	D	D	A	B	D	D	D	D		A	A	A	A	A	A		B	A		A	A		A	A		A	A	A	A	
Mercuric Cyanide	A	A	A		D	A		D			D		A		A	A	A				B	A		A	A		A					A	
Mercury	A	A	A	A	C	C	A	D	D	A	A		A		A	A	A	A		B	A		A	A		A	A		A	A	A	A	

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Methanol (See Alcohol Methyl)																																	
Methyl Acetate	A	A	A	A	A	A	A	A			B				A	A			D				A	A	D	D	D	B	B	D			
Methyl Acrylate																A							A	A	D	D		B	B	D	A		
Methyl Acetone	A	A	A	A	A	A	A	A	A	A				A	D	A								A	D	D						C	
Methyl Alcohol 10%	A	A	C	A	C	A	C			B		A	A			A										B				A	A		
Methyl Bromide																A			D				A	A	A	B		D	D	D	B		
Methyl Butyl Ketone		A	A												D	B							A	A	D	D	C	D	A	D	B		
Methyl Cellosolve			A		A										C	B					A		A	A	D	D		D	B	D	C		
Methyl Chloride		A	A	D	A	A	A				A	D	A	D	A	A			D	D	D	D	A	A	A	D	D	D	C	D	A		
Methyl Dichloride															D	A							A	A	A	D		D	D	D	A		
Methyl Ethyl Ketone		A	A	A	A	A	A				D	D	A	D	B	A	D	D	D	A	A	A	A	A	D	D	C	D	A	D	B		
Methyl Isobutyl Ketone ²		A		A	A						D	D	A	D	B	A	D			C	A	A	A	A	D	D	C	D	C	D	B		
Methyl Isopropyl Ketone		A													D	B	A						A	A	D	D	B	D	B	D	B		
Methyl Methacrylate																A							A	A	D	D		D	D	D	A		
Methylamine	A	A	A		D	B	B								B	D							A	A		B					A		
Methylene Chloride	A	A	A	A	A	A	A	C		B	D	D	A	D	A	D		D	D	D	D	A	A	D	D		D	D	D	A			
Milk	A	A	A	A	A		C	C	D	D		A		A	A	A	B	B	A	A	A	A	A	A	A	A	B	A	A	A	A		
Molasses	A	A	A	A	A		A	B	A	A		A		B	A	A		B	A			A	A	A	A	A	A					A	
Mustard	A	A	A	A	B		B	C	B		A		B	B	A	B					A		A	A	A	B	C	C			A		
Naphtha	A	A	A	A	A	A	B	B	B	A	A	C	A	D	A	A	C	D	A	A	A	A	A	A	A	B	D	D	D	D	A		
Naphthalene	B	A	B	B	A	A	C		B	A	A	D	A	D	A			D	B	A	A	A	B	D		D	D	D	D	A			
Nickel Chloride		A	B	D	A	A	D		D		A	A	B	A	A	B	A		B	A		A	A	A	A	A	A	A	A	A	A		
Nickel Sulfate	B	A	B	D	A	B	C	C	D	D	A	A	A	A	A	B	A		B	A		A	A	A	A	A	A	A	A	C	A		
Nitric Acid (10% Solution)	A	A	A	A	D	A	A	D	D	D	A	A	B	A	A	D	D	C	B	A	D	C	B	D	A	D		D	B	D	A		
Nitric Acid (20% Solution)		A	A	A	D	A	A	D	D		B	A	B	A	A	D	D	D	B	A	C	D	C	D	A	D		D	D	D	B		
Nitric Acid (50% Solution)		A	A	A	D	A	A	D	D		B	A	B	A	A	D	D	D	C	D	C	D	A	A	D		D	D	D	D			
Nitric Acid (Concentrated Solution)		D	B	A	B	A	B	D	D		D	C	A	D	D	D	D	D	D	C	D	A	C	B	D		D	D	D	D			
Nitrobenzene ²	B	A	B	C	A	B	D	B	B	D	D	D	A	D	B	C	D	D	C	B	A	A	D	D	D	D	D	D	D	B			
Oils: Aniline		A	A	C	A	D	A	A			D	A	D	D	C	D					A		A	A	A	D		D	B	D	A		
Anise		A	A												A								A	A				D			A		
Bay		A	A												A								A	A	A			D			A		
Bone		A	A				A								A								A	A	A	A		D			A		
Castor		A	A	A			A	A			A				A								A	A	A	A	A	A	B	A	A		
Cinnamon		A	A											A	A						A		A	A	D			D			A		
Citric		A	A				D	D							A	A					A		A	A	A	A		D			A		
Clove		A	A												A	A					B		A	A		A						A	
Coconut		A	A	B			A	A							A	A					A		A	A	A	A		A	A	D	A		
Cod Liver		A	A	B											A	A	C				A		A	A	A	A		B	A	D	A		
Corn		A	A	A	B		B	A							A	A	C				A		A	A	A	A		D	C	D	A		
Cotton Seed	B	A	A	A	B		B	A	C		A	A	A	A	C						A	A	A	A	A	A		D	C	D	A		
Creosote ²		A	A	A											D						D		A	A	A	A		B	D	D	A		
Diesel Fuel (2D, 3D, 4D, 5D)		A	A	A			A								D	A	A				A	A	A	A	A	A		D	D	D	A		
Fuel (1, 2, 3, 5A, 5B, 6)		A	A	A	A	A	A				A	A	D	A							B		A	A	A	B		D	D	D	A		
Ginger		A	A												A								A	A	A	A		A				A	

A — No effect — Excellent
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1. P.V.C. — Satisfactory to 72° F.
 2. Polypropylene — Satisfactory to 72° F.
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 4. Buna-N — Satisfactory for "O" Rings
 5. Polyacetal — Satisfactory to 72° F.
 6. Ceramag — Satisfactory to 72° F.

	302 Stainless Steel	304 Stainless Steel	316 Stainless Steel	440 Stainless Steel	Aluminum	TITANIUM	HASTELLOY C	Cast Bronze	Brass	Cast Iron	Carbon Steel	KYNAR	PVC (Type 1)	Tygon (E-3606)	Teflon	Noryl	Polyacetal	Nylon	Cyclac (ABS)	Polyethylene	POLYPROPYLENE	RYTON	CARBON	CERAMIC	CERAMAGNET "A"	VITON	BUNA N (NITRILE)	Silicon	Neoprene	Ethylene Propylene (EPM)	Rubber (Natural)	Epoxy		
Oils: Hydraulic (See Hydraulic)																																		
Lemon		A	A														A					D		A	A		A			D			A	
Linseed		A	A	A	A			A		A			A	B			A	A	C			A		A	A	A	A	A		D	D	D	A	
Mineral	A	A	A	A	A			A		A	B		A			B	A	A				B	A	A	A	A	A		B	D	D	A		
Olive	A	A	A		A			B		A	B		A		A		A	A				A		A	A	A	A	C	B		D	A		
Orange		A	A												A		A	A				A		A	A	A	A		D			A		
Palm		A	A		A			B					A				A	A						A	A	A	A		D			A		
Peanut ³		A	A		A			A		A			A				A					D		A	A	A	A		D		D	A		
Peppermint ²		A	A					A									A					D		A	A	A	D		D			A		
Pine	A	A	A		A			D		C	B		A		A		A							A	A	A	A		D		D	A		
Rape Seed		A	A					A					A				A							A	A	A	A		D		D	A		
Rosin		A	A		A												A	A				A		A	A	A	A					A		
Sesame Seed		A	A		A			A		A			A				A							A	A	A	A		D			A		
Silicone		A	A					A		A						A	A	A				A		A	A	A	A		A		A	A		
Soybean		A	A		A			B		A			A				A	A				A		A	A	A	A		D		D	A		
Sperm		A	A					A					A				A							A	A	A	A		D			A		
Tanning		A	A														A							A	A	A	A		D			A		
Turbine		A	A		A			A		A			A				A		C					A	A	A	A		D		D	A		
Oleic Acid	B	A	A	B	B		B	B	C	C	C		A	C	A	C	B	A	B	D		C		A	A	D	B	D	D	D	D	A		
Oleum 25%							A					B	D		A	D								A	A	D	D	D	D	D	D	D		
Oleum	B		A		B		C	C			B	D	D		A	D						D		A	A	C	D	D	D	D	D	A		
Oxalic Acid (cold)	C	A	B	A	C	C	B	B	C	D	D		A	B	A	C	C	D			A	A		A	A	A	B	C	B	A	C	A		
Paraffin	A	A	A	A	A			A		B	B	A	A		A	B	A	A	B			A		A	A	A	A					A		
Pentane	A	C	C		A		B	A		B	B				A	D	A	A	D					A	A	A	A		B	D	D	A		
Perchloroethylene ²	B	A	A		A		C		B	B	A				A	D	A		D		D	A	A	A	A	C	D	D	D	D	A			
Petrolatum	A		A		B		B		C	C					A	D	A	A	B					A	A	A	A		B	A	D	A		
Phenol 10%	B	A	A		A		B	C		B	D		A	C	A			D					A			B	D		C	D	C	C		
Phenol (Carbolic Acid)	B	A	A	A	B	C	A	B	D	D	D	A	A	C	A	C	D	D		D	B	A	A	D	A	A	D	D	D	D	B			
Phosphoric Acid (40% Solution)		B	A	A	D	A	A	D	D	D			A	B	A	A	D	D	C	B	A	A	B	C	D	A	D		D	B	C	A		
Phosphoric Acid (40% - 100% Solution)		C	B	B	D	B	A	D	D	D			A	B	A	A	D	D	D	C	A	A	B	D	D	A	D		D	B	C	C		
Phosphoric Acid (Crude)		D	C	C	D	C	A	D	D	D	D	A			A		D	D	D	C		A	C	D	A	D		D	B		A			
Phosphoric Anhydride (Dry or Moist)		A	A					D					D	D	A									A		D	D		D		A			
Phosphoric Anhydride (Molten)		A	A		D		D	D					D		A		A		D						D	C		D		D	A			
Photographic (Developer)		C	A	C	C	A	A			D			A		A	C			B	A		A	A	A	A	A		A			A			
Phthalic Anhydride	B	A	B		B		A	B		C	C				A		A								A	C								
Picric Acid	B	A	A		C		A	D	D	D	D		A	A	A		A		A						A	A	D	A		A	A			
Plating Solutions																																		
Antimony Plating 130° F			A			A	A						A		A	A	D					A		A	A	A	D	A			B			
Arsenic Plating 110° F			A			A	A						A		A	A	A					A		C	A	A	D	A			B			
Brass Plating																																		
Regular Brass Bath 100° F			A			A	A						A		A	A	A					A		C	A	A	D	A			B			
High Speed Brass Bath 110° F			A			A	A						A		A	A	A					A		D	A	A	D	A			B			
Bronze Plating																																		
Copper Cadmium Bronze Bath R.T.			A			A	A						A		A	A	A					A		C	A	A	D	A			B			
Copper-Tin Bronze Bath 160° F			A			A	A						D		A	A	A					A		D	A	A	D	B			C			
Copper-Zinc Bronze Bath 100° F			A			A	A						A		A	A	A					A		C	A	A	A				B			
Cadmium Plating																																		
Cyanide Bath 90° F			A			A	A						A		A	A	A					A		C	A	A	A		A			B		

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