

Chemical Resistance Chart

Acetaldehyde - Alcohols (Propyl)

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 customer must determine the suitability of the pump 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 pump selections when the chemical is abrasive, viscous in nature, or has a Specific Gravity greater than 1.1

	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	
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	
Acetate Solv. 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	-	-	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	C	-	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	C	B	A	A	A	A	
Isopropyl	-	A	A	-	B	A	A	A	C	C	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	

Chemical Resistance Chart

Aluminum Chloride - Beer

**RATINGS -
CHEMICAL EFFECT**
A: No effect - Excellent
B: Minor effect - Good
C: Moderate effect - Fair
D: Severe effect -
Not Recommended

RATINGS - CHEMICAL EFFECT A: No effect - Excellent B: Minor effect - Good C: Moderate effect - Fair D: Severe effect - Not Recommended	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	Cycloc (ABS)	Polyethylene	POLYPROPYLENE	RYTON	CARBON	CERAMIC	CERAMAGNET "A"	VITON	BUNA N (NITRILE)	Silicon	Neoprene	Ethylene Propylene (EPM)	Rubber (Natural)	Epoxy			
	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			
	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	A
Alum Potassium Sulfate (Alum), 10%	-	A	-	-	A	-	B	-	-	D	A	-	A	-	A	-	-	A	-	A	-	-	A	A	-	A	-	-	A	-	-	A	-	A	A
Alum 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	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	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	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	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	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		
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	-	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	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	A	-	B	B	B	A	A	C	A	A	A	
Ammonium Nitrate	A	A	A	A	B	A	A	D	D	A	D	-	A	B	A	A	C	D	-	B	A	A	A	A	-	D	A	C	A	A	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	A	-	C	A	-	A	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	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	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	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	A	-	D	A	B	A	A	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	A	-	D	D	D	D	A	D	A	A	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	A	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	A	A	
Aniline	B	A	A	A	C	A	B	C	-	-	C	C	D	D	A	D	D	C	D	C	B	A	A	A	-	C	D	C	D	B	D	A	A	A	
Anti-Freeze	-	A	A	-	A	-	A	B	B	B	C	-	A	B	A	A	A	A	B	B	A	A	A	A	A	A	A	C	A	A	A	A	A	A	
Antimony Trichloride	-	D	D	-	D	C	A	-	-	-	-	-	A	A	A	-	-	D	-	A	-	-	-	A	-	A	-	-	C	-	-	A	A	A	
Aqua Regia (80%, HCl, 20%, HNO ₃)	-	D	D	-	D	A	D	D	-	-	-	C	D	D	A	D	D	D	-	D	C	-	-	D	-	C	D	C	D	D	D	D	D	D	
Arochlor 1248	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	D	-	-	-	-	-	-	A	-	-	A	D	-	D	B	D	A	A	A	
Aromatic Hydrocarbons	-	-	A	-	A	-	-	A	-	A	A	-	D	-	-	D	A	-	-	C	-	-	A	-	-	A	D	-	D	D	D	A	A	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	A
Asphalt	-	B	A	-	C	-	-	A	-	C	-	-	A	-	-	-	A	A	-	-	A	A	-	A	A	A	B	C	B	D	D	A	A	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	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	A	B	A	A	A	A	A	A	
Barium Cyanide	-	-	A	-	-	-	-	C	-	-	A	-	-	-	-	-	B	-	-	B	-	-	A	-	-	A	C	-	A	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	A	A	C	A	A	A	A	A	A	
Barium Nitrate	-	A	A	-	-	A	-	D	-	A	A	-	B	-	-	A	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	-	B	A	A	A	B	-	A	A	D	A	A	-	-	A	-	B

FOOTNOTES

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3. Polypropylene - Satisfactory to 120° F.

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5. Polyacetal - Satisfactory to 72° F.

6. Ceramag - Satisfactory to 72° F.

Chemical Resistance Chart

Beet Sugar Liquids - Chlorobenzene

RATINGS - CHEMICAL EFFECT

A: No effect - Excellent
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	A	A	A	-	A	-	-	A	B	A	-	-	A	-	A	A	B	A	B	-	A	-	A	A	-	A	A	-	B	A	A	A	
	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	
	B	A	A	A	B	A	B	B	A	B	C	B	D	C	A	D	A	A	D	D	D	D	A	A	A	A	A	D	-	D	D	D	A
	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
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	-	B	A	-	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	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	
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	
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	
Carbon Dioxide (wet)	-	A	A	-	C	-	A	C	C	C	-	-	-	-	A	-	-	-	-	-	-	-	-	A	A	-	-	-	-	-	-	-	
CarbonDisulfide 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	-	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	
Chloracetic 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	
Chlorine, Anhydrous Liquid	-	D	D	D	D	D	A	D	-	C	-	-	D	B	A	A	D	D	-	D	D	C	A	D	-	A	C	-	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	A	A	A	-	A	D	-	D	D	D	A	

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.

Chemical Resistance Chart

Chloroform - Ferrous Chloride

RATINGS - CHEMICAL EFFECT

A: No effect - Excellent
B: Minor effect - Good
C: Moderate effect - Fair
D: Severe effect -
Not Recommended

RATINGS - CHEMICAL EFFECT A: No effect - Excellent B: Minor effect - Good C: Moderate effect - Fair D: Severe effect - Not Recommended																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	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		Cycolac (ABS)		Polyethylene		POLYPROPYLENE		RYTON		CARBON		CERAMIC		CERAMAGNET "A"		VITON		BUNA N (NITRILE)		Silicon		Neoprene		Ethylene Propylene (EPM)		Rubber (Natural)		Epoxy																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	A	A	A	A	D	A	A	B	-	D	C	C	D	C	A	D	A	C	D	D	D	D	D	D	C	A	D	C	A	D	A	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D

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.

Chemical Resistance Chart

Ferrous Sulfate - Hydrofluosilicic Acid

RATINGS - CHEMICAL EFFECT

A: No effect - Excellent
B: Minor effect - Good
C: Moderate effect - Fair
D: Severe effect -
Not Recommended

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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		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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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	A	D	-	A	B	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A

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5. Polyacetal - Satisfactory to 72° F.

6. Ceramag - Satisfactory to 72° F.

Chemical Resistance Chart

Hydrogen Gas - Methyl Acrylate

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

Chemical Resistance Chart

Methyl Acetone - Oils

RATINGS - CHEMICAL EFFECT

A: No effect - Excellent
B: Minor effect - Good
C: Moderate effect - Fair
D: Severe effect -
Not Recommended

RATINGS - CHEMICAL EFFECT A: No effect - Excellent B: Minor effect - Good C: Moderate effect - Fair D: Severe effect - Not Recommended	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																															
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Methyl Acetone	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-	A	-																												

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.

Chemical Resistance Chart

Oils (Cont'd) - Bronze Plating

RATINGS - CHEMICAL EFFECT

A: No effect - Excellent
B: Minor effect - Good
C: Moderate effect - Fair
D: Severe effect -
Not Recommended

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	Cycloc (ABS)	Polyethylene	POLYPROPYLENE	RYTON	CARBON	CERAMIC	CERAMAGNET "A"	VITON	BUNA N (NITRILE)	Silicon	Neoprene	Ethylene Propylene (EPM)	Rubber (Natural)	Epoxy
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Oils (Cont.)																																	
Ginger	-	A	A	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	A	A	-	A	A	-	A	-	-	A		
Hydraulic (See Hydraulic)																																	
Lemon	-	A	A	A	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	D	-	A	A	-	A	-	-	D	-	-	A		
Linseed	-	A	A	A	A	-	-	A	-	A	-	-	A	B	-	A	-	-	B	A	A	C	-	A	-	A	A	A	A	-	D	D	A
Mineral	A	A	A	A	A	-	-	A	-	A	B	-	A	-	-	B	A	A	-	B	A	A	A	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	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	-	D	-	D	A	
Rape Seed	-	A	A	-	-	-	-	A	-	-	-	-	A	-	-	-	A	-	-	-	-	-	A	A	-	A	B	-	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	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
Oleum	B	-	A	-	B	-	-	C	C	-	B	D	D	-	-	A	-	D	-	-	-	D	-	-	-	A	-	A	C	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	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	C	D	D	-	D	B	A	A	D	A	A	D	-	D	D	D	B
Phosphoric Acid (to 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
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	

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.

Chemical Resistance Chart

Platings (Cont'd) - Zinc Plating

RATINGS - CHEMICAL EFFECT

A: No effect - Excellent
B: Minor effect - Good
C: Moderate effect - Fair
D: Severe effect - Not Recommended

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
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Platings (Cont.)	-	-	A	-	-	A	A	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	C	-	A	A	-	A	-	-	B
Copper-Zinc Bronze Bath 100°F	-	-	A	-	-	A	A	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	C	-	A	A	-	A	-	-	B
Cadmium Plating	-	-	A	-	-	A	A	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	C	-	A	A	-	A	-	-	B
Cyanide Bath 90°F	-	-	A	-	-	D	A	-	-	-	-	-	A	-	A	A	-	D	-	-	A	-	-	D	-	A	B	-	C	-	-	B
Fluoroborate Bath 100°F	-	-	A	-	-	D	A	-	-	-	-	-	A	-	A	A	-	D	-	-	A	-	-	D	-	A	B	-	C	-	-	B
Chromium Plating	-	-	C	-	-	A	A	-	-	-	-	-	A	-	A	D	-	D	-	-	A	-	-	A	-	C	D	-	D	-	-	D
Chromic-Sulfuric Bath 130°F	-	-	C	-	-	C	A	-	-	-	-	-	A	-	A	D	-	D	-	-	A	-	-	B	-	C	D	-	D	-	-	D
Fluosilicate Bath 95°F	-	-	D	-	-	C	A	-	-	-	-	-	A	-	A	D	-	D	-	-	A	-	-	B	-	C	D	-	D	-	-	D
Fluoride Bath 130°F	-	-	C	-	-	A	A	-	-	-	-	-	A	-	A	D	-	D	-	-	A	-	-	A	-	C	D	-	D	-	-	D
Black Chrome Bath 115°F	-	-	C	-	-	A	A	-	-	-	-	-	A	-	A	D	-	D	-	-	A	-	-	A	-	C	D	-	D	-	-	D
Barrel Chrome Bath 95°F	-	-	D	-	-	C	A	-	-	-	-	-	A	-	A	D	-	D	-	-	A	-	-	A	-	C	D	-	D	-	-	D
Copper Plating (Cyanide)	-	-	A	-	-	A	A	-	-	-	-	-	D	-	A	A	-	A	-	-	A	-	-	D	-	A	A	-	B	-	-	C
Copper Strike Bath 120°F	-	-	A	-	-	A	A	-	-	-	-	-	D	-	A	A	-	A	-	-	A	-	-	D	-	A	A	-	B	-	-	C
Rochelle Salt Bath 150°F	-	-	A	-	-	A	A	-	-	-	-	-	D	-	A	A	-	A	-	-	A	-	-	D	-	A	A	-	B	-	-	C
High Speed Bath 180°F	-	-	A	-	-	A	A	-	-	-	-	-	D	-	A	A	-	A	-	-	A	-	-	D	-	A	A	-	B	-	-	C
Copper Plating (Acid)	-	-	D	-	-	A	A	-	-	-	-	-	A	-	A	A	-	D	-	-	A	-	-	D	-	A	A	-	A	-	-	D
Copper Sulfate Bath R.T.	-	-	D	-	-	D	A	-	-	-	-	-	A	-	A	A	-	D	-	-	A	-	-	D	-	A	B	-	C	-	-	D
Copper Fluoroborate Bath 120°F	-	-	D	-	-	D	A	-	-	-	-	-	A	-	A	A	-	D	-	-	A	-	-	D	-	A	B	-	C	-	-	D
Copper (Misc.)	-	-	A	-	-	A	A	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	B	-	A	A	-	A	-	-	B
Copper Pyrophosphate 140°F	-	-	A	-	-	A	A	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	B	-	A	A	-	A	-	-	B
Copper (Electroless) 140°F	-	-	-	-	-	-	D	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	D	-	A	D	-	D	-	-	B
Gold Plating	-	-	A	-	-	A	A	C	-	-	-	-	D	-	A	A	-	A	-	-	A	-	-	B	-	A	A	-	A	-	-	D
Cyanide 150°F	-	-	C	-	-	A	A	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	A	A	-	A	-	-	A
Neutral 75°F	-	-	C	-	-	A	A	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	A	A	-	A	-	-	A
Acid 75°F	-	-	C	-	-	A	A	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	A	A	-	A	-	-	A
Indium Sulfamate Plating R.T.	-	-	C	-	-	A	A	-	-	-	-	-	A	-	A	A	-	D	-	-	A	-	-	A	-	A	A	-	A	-	-	A
Iron Plating	-	-	D	-	-	A	D	-	-	-	-	-	D	-	A	A	-	D	-	-	C	-	-	A	-	A	B	-	D	-	-	D
Ferrous Chloride Bath 190°F	-	-	C	-	-	A	A	-	-	-	-	-	D	-	A	A	-	D	-	-	A	-	-	A	-	A	A	-	B	-	-	D
Ferrous Sulfate Bath 150°F	-	-	C	-	-	A	A	-	-	-	-	-	D	-	A	A	-	D	-	-	A	-	-	A	-	A	A	-	B	-	-	D
Ferrous Am. Sulfate Bath 150°F	-	-	C	-	-	A	A	-	-	-	-	-	D	-	A	A	-	D	-	-	A	-	-	A	-	A	A	-	B	-	-	D
Sulfate-Chloride Bath 160°F	-	-	D	-	-	A	D	-	-	-	-	-	D	-	A	A	-	D	-	-	A	-	-	A	-	A	B	-	C	-	-	D
Fluoroborate Bath 145°F	-	-	D	-	-	D	B	-	-	-	-	-	D	-	A	A	-	D	-	-	A	-	-	D	-	A	B	-	C	-	-	D
Sulfamate 140°F	-	-	D	-	-	A	B	-	-	-	-	-	A	-	A	A	-	D	-	-	A	-	-	A	-	A	A	-	A	-	-	A
Lead Fluoroborate Plating	-	-	C	-	-	D	A	-	-	-	-	-	A	-	A	A	-	D	-	-	A	-	-	D	-	A	B	-	C	-	-	A
Nickel Plating	-	-	C	-	-	A	A	-	-	-	-	-	D	-	A	A	-	A	-	-	A	-	-	A	-	A	A	-	A	-	-	D
Watts Type 115-160°F	-	-	C	-	-	A	A	-	-	-	-	-	D	-	A	A	-	D	-	-	A	-	-	A	-	A	A	-	B	-	-	D
High Chloride 130-160°F	-	-	C	-	-	D	A	D	-	-	-	-	D	-	A	A	-	D	-	-	A	-	-	D	-	A	B	-	C	-	-	D
Fluoroborate 100-170°F	-	-	C	-	-	A	A	-	-	-	-	-	D	-	A	A	-	D	-	-	A	-	-	D	-	A	B	-	C	-	-	D
Sulfamate 100-140°F	-	-	C	-	-	A	A	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	A	A	-	A	-	-	A
Electroless 200°F	-	-	-	-	-	-	-	-	-	-	-	-	D	-	A	D	-	D	-	-	D	-	-	A	-	A	D	-	D	-	-	B
Rhodium Plating 120°F	-	-	D	-	-	D	D	-	-	-	-	-	A	-	A	A	D	D	-	-	A	-	-	A	-	A	A	-	B	-	-	A
Silver Plating 80-120°F	-	-	A	-	-	A	A	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	B	-	A	A	-	A	-	-	A
Tin-Fluoroborate Plating 100°F	-	-	C	-	-	D	A	-	-	-	-	-	A	-	A	A	-	D	-	-	A	-	-	D	-	A	B	-	C	-	-	A
Tine-Lead Plating 100°F	-	-	C	-	-	D	A	-	-	-	-	-	A	-	A	A	-	D	-	-	A	-	-	D	-	A	B	-	C	-	-	A
Zinc Plating	-	-	D	-	-	A	D	-	-	-	-	-	A	-	A	A	-	D	-	-	A	-	-	A	-	A	A	-	A	-	-	A
Acid Chloride 140°F	-	-	C	-	-	A	A	-	-	-	-	-	D	-	A	A	-	D	-	-	A	-	-	A	-	A	A	-	B	-	-	D
Acid Sulfate Bath 150°F	-	-	C	-	-	A	A	-	-	-	-	-	D	-	A	A	-	D	-	-	A	-	-	A	-	A	A	-	B	-	-	D

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.

Chemical Resistance Chart

Platings (Cont'd) - Sodium Hydrosulfite

RATINGS - CHEMICAL EFFECT

A: No effect - Excellent
B: Minor effect - Good
C: Moderate effect - Fair
D: Severe effect -
Not Recommended

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	Cycloc (ABS)	Polyethylene	POLYPROPYLENE	RYTON	CARBON	CERAMIC	CERAMAGNET "A"	VITON	BUNA N (NITRILE)	Silicon	Neoprene	Ethylene Propylene (EPM)	Rubber (Natural)	Epoxy
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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.

Chemical Resistance Chart

Sodium Hydroxide - Tartaric Acid

RATINGS - CHEMICAL EFFECT

A: No effect - Excellent
B: Minor effect - Good
C: Moderate effect - Fair
D: Severe effect -
Not Recommended

RATINGS - CHEMICAL EFFECT A: No effect - Excellent B: Minor effect - Good C: Moderate effect - Fair D: Severe effect - Not Recommended																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	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		Cycloc (ABS)		Polyethylene		POLYPROPYLENE		RYTON		CARBON		CERAMIC		CERAMAGNET "A"		VITON		BUNA N (NITRILE)		Silicon		Neoprene		Ethylene Propylene (EPM)		Rubber (Natural)		Epoxy																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Sodium Hydroxide (20%)	-	A	A	A	D	A	A	C	D	A	-	A	A	B	A	A	D	C	C	C	B	A	A	C	D	A	A	A	D	D	C	-	A	A	A	D	D	D	D	C	-	A	A	A	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Sodium Hydroxide (50% Solution)	-	A	B	-	D	A	A	C	D	B	-	D	A	B	A	A	D	C	C	C	C	A	B	C	D	A	D	D	D	D	C	-	A	A			D	D	D	C	-	A	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Sodium Hydroxide (80% Solution)	-	A	D	-	D	A	B	C	D	C	-	-	A	B	A	A	D	C	C	C	C	A	B	C	D	A	B	D	D	C	-	B	A <td colspan="2"></td> <td>D</td> <td>D</td> <td>D</td> <td>C</td> <td>-</td> <td>B</td> <td>A<td colspan="2"></td></td>			D	D	D	C	-	B	A <td colspan="2"></td>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Sodium Hypochlorite (to 20%)	-	C	C	C	C	A	A	D	D	D	-	-	A	B	A	A	D	A	-	B	D	C	D	A	B	A	C	D	D	B	C	B <td colspan="2"></td> <td>D</td> <td>D</td> <td>D</td> <td>C</td> <td>-</td> <td>B</td> <td>A<td colspan="2"></td></td>			D	D	D	C	-	B	A <td colspan="2"></td>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Sodium Hypochlorite	D	-	A	-	D	A	A	D	-	D	D	A	A	-	A	A	-	A	-	-	A	C	-	D	-	B	B	C	A	-	-	A <td colspan="2"></td> <td>D</td> <td>D</td> <td>D</td> <td>C</td> <td>-</td> <td>-</td> <td>A<td colspan="2"></td></td>			D	D	D	C	-	-	A <td colspan="2"></td>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Sodium Hyposulfate	-	A	A	-	D	-	-	D	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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.

Chemical Resistance Chart

Tetrachlorethane - Zinc Sulfate

**RATINGS -
CHEMICAL EFFECT**
A: No effect - Excellent
B: Minor effect - Good
C: Moderate effect - Fair
D: Severe effect -
Not Recommended

RATINGS - CHEMICAL EFFECT A: No effect - Excellent B: Minor effect - Good C: Moderate effect - Fair D: Severe effect - Not Recommended																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

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