



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 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.

NOTE: The materials shown below in **BOLDFACE TYPE** are used in the construction of Little Giant chemical pumps.

	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	
Acetaldehyde⁵	A	A	A		B	A	A	D			C		D	D	A		A	A	D	C	B	A	A	A	A	A	A	A	A	A	A		
Acetamide		B	A								C						B																
Acetate Solvent²	A	B	A	B	B			A	C	B	A		B	D	A		A	B			D	A	A	A	D	D	D	D	D	A	A		
Acetic Acid, Glacia¹		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	A	A	A	C	C	B	B	
Acetic Acid 80%		B	A			A	A		C				A	D		A	B	D				B	A	A	A	A	C	C	C	C	B	C	
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	A	C	C	C	B	C	A		
Acetic Anhydride		B	A	A	B	A	A	C	D	B	D	D	D	D	A	D	D	D	D	A	A	A	A	A	A	D	A	C	B	B	C		
Acetone⁶		A	A	A	B	A	A	A	A	A	A	D	D	D	D	A	D	B	A	D	C	B	A	A	A	A	D	D	B	C	A	D	
Acetyl Chloride		C	A					D								A							A										A
Acetylene²		A	A	A	A	B		B		A	A		B									D	A	A	A	A	A	A	A	A	A	A	
Acrylonitrile		A	A	C		B	B	A		C												B	D	B	A	A	C	D	D	D	A	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	A	A	A	A	A		
Benzyl			A	A	B	A	A	A	C				D	B		A	A	A	D	D	A	A	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	A	B	B	A	A	A	A	A	A	A	A	A	A		
Diacetone²		A	A	A	A	A	A	A	C	A		D			A	A	A				D	A	A	A	D	D	D	A	D	A	D		
Ethyl		A	A	A	B	A	A	A	C	A	A		A	C	A	B	A	B	B	A	A	A	A	A	A	A	B	A	B	A			
Hexyl		A	A	A	A	A	A	A	C	A							A	A	A	B	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	A	C	B	A	A	A	A		

A — No effect — Excellent

B — Minor effect — Good

C — Moderate effect — Fair

D — Severe effect — Not recommended

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.

					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 (EPDM)	Rubber (Natural)	Epoxy								
Barium Nitrate		A	A		A	D		A	A		B																A	A	A	A	B													
Barium Sulfate		B	A	A	D	A	A	C	C	A	A																																	
Barium Sulfide		B	A	A	D	B		C	C		A	A	A	A	A																													
Beer ²		A	A	A	A	A	A	A	B	D	D	A	A																															
Beet Sugar Liquids		A	A	A		A			A	B	A																																	
Benzaldehyde ³		A	A	A	B	A	A	B	A	C	D	D	A	D	A	C	D	D	A	A	A	D	D	B	D	A	D	A																
Benzene ²		B	A	A	A	B	A	B	B	A	C	D	C	A	D	A	A	D	D	A	A	A	A	D	D	D	A	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	D	A														
Benzol		A	A		B	A	A	B	A			D																																
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	B	C	A	A	C	A														
Boric Acid		B	A	A	A	B	A	A	B	C		A	A	B	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A													
Brewery Slop			A					A	A																																			
Bromine ² (wet)		D	D	D	D	A	A	C	D	D	A	B	B	A	D	D	D	D	D	D	D	D	D	A	D	A	D	D	D	C														
Butadiene		A	A	A	A			C	A	C	C	A	A	A	A	A	A	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	A	D	B	D	A													
Butanol		A	A	A		A		A	A																																			
Butter		B	A	A				D	D										B	B	A	B																						
Buttermilk		A	A	A	A			D	D										B	A	A	A	B																					
Butylene		A	B	A	A			A	A	A	A							B	A	A	A																							
Butyl Acetate ¹		C	A	A	A	A		A	A		C	D	D	A	D	A		C	D	A	A	A	D	B	D	B	D	A																
Butyric Acid ¹		B	B	A	B	A	A	C	D		A	B		A	A	C	D	D	A	A	D	D	D	D	B	D	B	A																
Calcium Bisulfate		C	D	A	D			D	D	D								A	A	A	A	A																						
Calcium Bisulfide			B	C	A	A	C											A	A	A	D	A	B	A	A	A	A	A	A	A	D	A	A											
Calcium Bisulfite		B	A	C	A	A	C											A	A	A	A	A																						
Calcium Carbonate		B	A	A	C	A	A	C	D									A	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A										
Calcium Chlorate		B	A		B	B	C											A	A	A	A	A	A																					
Calcium Chloride		C	A	D	C	C	A	A	B	C		A	A	A	A	D	A	B	B	A	A	A	B	A	A	B	D	A	A	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	C	A	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	B	A	B	B										A	A	A	A	A	A	C	B	A	A	A	A	A	D	C	A											
Calgon		A	A					C	D										A	B																								
Cane Juice ²		A	A	B				B	C	A								A																										
Carbolic Acid (See Phenol)																																												
Carbon Bisulfide ²		B	A	A	A	A		C	B			D	D				A	A																										
Carbon Dioxide (wet)		A	A	C		A	C	C	C									A																										
Carbon Disulfide ²		B	A	C				C	C	B	C		D	C	A	D	A	A	D	D	D	A	B	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D						
Carbon Monoxide		A	A	A	A													A		B	A	A	B	A	A	A	A	A	A	B	B	A	C	A	A	A	A	A	A	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	D	D										
Carbonated Water		B	A	A	A	A		B	D			A					A		A	A	A			A	A	A	A	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	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A						
Catsup		A	A	A	D			C	D			A					A		A	B	A	B	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A					
Chloracetic Acid ²		D	D	D	D	C	A	A	D	D		D	A	D	A	D	D	D	D	D	D	D	A	A	D	D	D	B	D	B	B	D	B	B	D	B	D	B						
Chloric Acid		D	D									D	A																															
Chlorinated Glue		A	A	D			C	D										C	C	D										A	A	C	D	B	D	A								

A — No effect — Excellent

B — Minor effect — Good

C — Moderate effect — Fair

D — Severe effect — Not recommended

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.

	302 Stainless Steel	304 Stainless Steel	316 Stainless Steel	440 Stainless Steel	Aluminum	TITANIUM	HASTELLOY C	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	
Chlorine, Anhydrous Liquid	D	D	D	D	D	D	A	D	C			D	B	A	D	D	D	C	A	D	A	D	D	B	D	B	D	D	D
Chlorine (dry)	B	A	A	D	D	A	A	B	A			A						C	A	A	D		D	D	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	D	D	D	D	A	D	D	
Chloroform	A	A	A	A	D	A	A	B	D	C	C	D	C	A	D	A	C	D	D	D	C	D	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	C			
Chlorox (Bleach)		A	A	C	A	A	D	C	A	B	A	A	D	D	B	D	D	C	A	A	A	C	B	B	D	A			
Chocolate Syrup	A	A	A					D					A	A	A		A		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	A	D		A		A	A	A	D		D		C			
Chromic Acid 30%		B			A	A		D		B	A	A	D	D	D		A		A	A	A	D	D	D	D	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	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	
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	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	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 Fluoroborate	D	D	D	B	D	B	D	D	A	A	A	B			A		A	A	A	B	A	B	A	A	A	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	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	A	C	A	C	A	C		
Copper Sulfate	B	B			A	A	C	D		A	A	A	A	C		A		A	A	B	B	A	B	A	A	A	A	A	
Cream		A	A	A			C	D				A	A	A	A		A	A	A	A	A	A	A	C		A			
Cresols ²	A	A	B			D	C			D	D		D	D	D	D	C	A	A	A	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		A		D	D	A			D	A	A	A	A	A	A	A	D	D	D	D	A	
Cyanic Acid	A														D						C	D		A					
Detergents	A	A	A			A		A	A		A		A	B	A	B	B	A	A	A	A	A	A	B	A	C	A	A	
Dichlorethane		A	A			A				D	D	A		A	D					B		D	D	A					
Diesel Fuel	A	A	A	A		A		A	A	A			D	A		D		D	A	A	A	A	A	D	D	D	A		
Diethylamine	A	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	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	C	D	A	C		A	A	A	C	D	D	C	D	A			
Ethyl Acetate ²	A	A	B		B	B		C	D	D	D	A	D	A	D	A	C	C	A	A	A	D	D	C	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	D	D	C	A	A	A		
Ethyl Sulfate	D												B				A	A	A	A	A	A	A			A			
Ethylene Chloride ²	A	A	C	B	B	A	C	C	D	A	D	A	D	A	D	D	D	A	A	A	A	D	D	C	D	A			
Ethylene Dichloride	A	A	D	A	B	C		C	D	D	A	D	A	A	D	A	D	A	A	C	A	A	D	D	D	C	D		
Ethylene Glycol ⁴	A	A	A	A	B	B	B	C	A	A	B	A	A	A	B	B	A	A	A	A	A	A	C	A	A	A	A		

A — No effect — Excellent

B — Minor effect — Good

C — Moderate effect — Fair

D — Severe effect — Not recommended

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.

	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																		D	D	D	A
	Neoprene																		D	C	C	A
	Ethylene Propylene (EP)																					
	Rubber (Natural)																					
	Epoxy																					

A — No effect — Excellent

B — Minor effect — Good

C — Moderate effect — Fair

D — Severe effect — Not recommended

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.

	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
Hydrofluosilicic Acid (20%)	D	D	D	D	B	A		D				D		A	B	D	D				A	A	D	A	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	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	D	C	B	A	D	A				
Hydrogen Sulfide (dry)	A	C	A		D	A	D	C	B	B		A	A	A		D				A	A	D					A	A				
Hydroxyacetic Acid (70%)				D	B							A			D						A	A	A	A	A	A	A	A	A	A		
Ink	A	A	A	C		C		D	D					B	A	A	B	D	D	D	D	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	A	D		D									
Iodoform	B	C	A	A		C	C	B				A		A				D			D	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	A	A	A	A	A	A	A	A	A	A	A	A	D	D	D	D	A				
Kerosene ²	A	A	A	A	A	A	A	A	A	B	A	A	D	A	D	A	A	B	D	D	A	A	A	A	A	D	D	A	D			
Ketones	A	A	A	B	A	A	A	A	D	D	D	D	A	D	B	A	D	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		C	A	D	A		B			B	A		D	D	A								
Lactic Acid	A	A	B	C	C	A	A	D	D	C	A	B	A	B	C	B	A	A	A	B	B	B	A	B	A	A	A					
Lard	B	A	A	A	A		A	A	C	A				A	A	C	A	A	A	A	A	A	A	C	B	D	A					
Latex	A	A	A		A	A							A	A	A	B			A	A	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			D	A	A	A	B	A	D	A				
Lime	A	A	C	A	A	A	A					A		A	D	C				A	A	A	C	B	D	A						
Lubricants	A	A	A	A	A	A	B				A	A	A	A	B				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	A	A				
Magnesium Chloride	B	B	B	A	D	A	A	B	C	D	C		A	B	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	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	A	A	A	A	A					
Magnesium Oxide	A	A													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	B	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	D	A						
Malic Acid	B	A	A	C	A	D		D	A	A	A	A	A	A	A				A	B		A	A									
Mash		A	A				A								A	A				A	A		A	A	A			A				
Mayonnaise	A	A	A	D		D	D	D				A	A	A	B		A	A	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	B	A	A	A	A	A	A	A	A	A						
Mercuric Cyanide	A	A	A	D	A	D		D	A	A	A	A	A	A	A	B	A	A	A	A	A	A				A						
Mercury	A	A	A	A	C	C	A	D	D	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A						

A — No effect — Excellent

B — Minor effect — Good

C — Moderate effect — Fair

D — Severe effect — Not recommended

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.

	302 Stainless Steel	304 Stainless Steel	316 Stainless Steel	440 Stainless Steel	Aluminum	TITANIUM	HASTELLOY C	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 (EP)	Rubber (Natural)	Epoxy							
Methanol (See Alcohol Methyl)																																			
Methyl Acetate	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 D A								A	D D	D			C											
Methyl Alcohol 10%	A	A	C	A	C	B		A A			A										B				A A										
Methyl Bromide											A	D						A A	A B		D 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						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 A	A			D D	A D B A 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							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	A A	D D					A A	D D	D D D A															
Milk	A	A	A A A	A		C C D D		A	A A A B B	A		A A A A A A A A	A B A A A A A A A																						
Molasses	A	A	A A A	A		A B A A		A	B A A B			B A A A A A A 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			B B A B B	A A A A A A A A																						
Naphtha	A	A	A A A A A A	A A	B	B B A A	A A C A	D A A C D	A A A A A A A A																										
Naphthalene	B	A	B	B A A C	B A A	B A A D	A D	A D A	D B A A A A A A A																										
Nickel Chloride	A	B	D A A D	D	D	A A B A A B A		B A A B A A B A	B 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 A A A	B A A A A A A A A	B A A A A A A A A	B A A A A A A A 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 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	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	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 A B	D 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 B									
Oils: Aniline	A	A	C A D A	A	A	D	A D D C D	A A A A A A A A																		D B D A									
Anise	A	A																								D	A								
Bay	A	A																								A A A A A A A A									
Bone	A	A				A																				A A A A A A A A									
Castor	A	A	A			A A		A																											
Cinnamon	A	A																																	
Citric	A	A				D D																													
Clove	A	A																																	
Coconut	A	A	B			A A																													
Cod Liver	A	A	B																																
Corn	A	A A B				B A																													
Cotton Seed	B	A A A B				B A C	A A A	A A C	A A A A A A A A																										
Creosote ²	A	A	A																																
Diesel Fuel (2D, 3D, 4D, 5D)	A	A	A			A												D A A																	
Fuel (1, 2, 3, 5A, 5B, 6)	A	A	A A A A A	A	A													A A D A																	
Ginger	A	A																A																	

A — No effect — Excellent

B — Minor effect — Good

C — Moderate effect — Fair

D — Severe effect — Not recommended

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.

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

A — No effect — Excellent

B — Minor effect — Good

C — Moderate effect — Fair

D — Severe effect — Not recommended

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.

Silicon
Neoprene
Ethylene Propylene (EPM)
Rubber (Natural)
Epoxy

	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
Potassium Carbonate	B	A		A	C	A	A	C		B	B	A	A	B	A	A	B	A		B	A	A	A	A	A	B	A	B	A			
Potassium Chlorate	B	A	A	A	B	A	B	B		B	B	A	A	B	A	A	B	D		B	A	A	A	A	A	A	B	A	B	A		
Potassium Chloride	C	A	A	B	B	A	A	C	C	B	B	A	A	A	A	A	A	B	C	B	A	A	A	A	A	A	A	A	A			
Potassium Chromate			B	B	A		B	A		A		A				A	C		B		A	A	D	A	A	A	A	B	C			
Potassium Cyanide Solutions	B	A	B	A	D	A	A	D		B	B	A	A	A	A	C	A		B	A	A	C	A	B	A		A	A	A			
Potassium Dichromate	B	A	A	A	A	A	B	C		B	C	A	A	A	A	C	D		B	A	A	A	A	B	A		A	A	A			
Potassium Ferrocyanide	B	A		A	C		B	A		C		A	A	A	A	A	A							D			A	A				
Potassium Hydroxide (50%)	A	B	B	B	D	C	A	D	D	C	A	D	A	B	A	A	D	A	C	B	A	A	D	A	D	B	C	A	C	A		
Potassium Nitrate	B	A	B	A	B	A	B	B			B	A	C	A	A	B	C		B	A	C	A	A	B	A		A	A	A			
Potassium Permanganate	B	A	B	B	B	B	B	B		B	B	A	A	A	A	C	D	C	B	B	A	A	A	B	A		A	B	B			
Potassium Sulfate	B	A	B	B	A	A	B	B	B	B	B	A	A	A	A	A	B	C	B	B	A	A	A	A	A	C	A	A	C	A		
Potassium Sulfide	A	A		A	B		B	B		B	B	A		A	A									A								
Propane (Liquified) ^{1 2}	A	A		A	A			A	A		B		D		A	D	A	A		D		A	A	A	A	D	B	D	D	A		
Propylene Glycol	B	B		A	A			B		B	B				A		B	B	B	B			A	A	A	A	C		A			
Pyridine		C		B	B					B	A	D			D	A	D	D		C	B	A	A		D	D	D	B	D	A		
Pyrogallic Acid	B	A	A	A	B		A	B		B	B	A		A	A		D	A			A	A	A	A			A					
Rosins	A	A	A	A	A		B	A	C	C				A		B	A			A	A	A	A	A					A			
Rum		A		A								A			A	A	A			A	A	A	A	A	A	A	A		A			
Rust Inhibitors	A	A		A				A	A								A			A	A	A	A	A	C		A					
Salad Dressing	A	A	A	B			B	D			A			A	A	A	A		A	A	A	A	A	A								
Sea Water	A	A	C	A	C	A		C		D		A		A	A	A	A		B	A	A	A	A	A	B	B	A	A	A			
Shellac (Bleached)	A	A		A	A			A	B	B	A				A	A	A		A		A	A	A					A				
Shellac (Orange)	A	A		A	A			A	C	C	A				A	A	A		A		A	A	A					A				
Silicone	B		A	B			A									A	A	A		A	A	A	A	B	A	A	A	A	A	A		
Silver Bromide		C	C	B	D											A	C							A					A			
Silver Nitrate	B	A	B	A	D	A	A	D	D	D	A	A	B	A	A	C	A	B	A	A	A	A	A	C	A	A	A	A				
Soap Solutions ¹	A	A	A	A	C	A	B	B	B	A	B	B	A	A	A	A	A	A	B	A	A	A	A	A	B	B	C	A				
Soda Ash (See Sodium Carbonate)																																
Sodium Acetate	B	A	A	B	B	A		B	C	C	A	A		A	A	B	A		B	A	A	A	D	D	C	A	A					
Sodium Aluminate	B			A	C	B	B	B		C				A	A	B	A			A	A	A	A	A	A	A	B	A				
Sodium Bicarbonate	B	A	A	A	A	A		B	A	C	C	A	A	B	A	B	A	B	B	A	A	A	A	A	C	A	A	A				
Sodium Bisulfate	A	A		A	D	B	B	C	C	D	D	A	A	B	A	B	A	B	C	C	B	A	A	A	B	A	C	A				
Sodium Bisulfite	A	A	A	A	A	B	C	D		A	A	B	A	A	B	D	B	B	A	A	A	A	A	A	A	C	A	A				
Sodium Borate	B	A		A	C	A	A	C	C	C	C	A	A	A	A	A	A	A	A				A	B	A							
Sodium Carbonate	B	A	B	B	C	A	A	B	B	B	B	A	A	B	A	A	A	C	B	A	A	B	A	A	A	A	A	A				
Sodium Chlorate	B	A		A	B	A	B	B		C	A	A	B	A	A	D	A	B	A	A	A	A	D	A	A	A	A					
Sodium Chloride	B	A	C	B	C	A	A	B	C	B	C	A	A	B	A	A	A	B	B	A	A	A	A	A	C	A	A	B				
Sodium Chromate	A	A	A	D	B	B	B	B						A	A	D	A			A	A	B	B	A	A	A	C					
Sodium Cyanide	B	A		A	D	A		D	D	B	B	A	A	A	A	D	C	B	A	A	B	A	A	D	A	A	A	A				
Sodium Fluoride	B	C		C	C	A	A	C	D	D		D	D	A	A			A	C				B	D	D	D	A					
Sodium Hydrosulfite					A		A	C				C	A	A		A							A	A	A	A	A					
Sodium Hydroxide/Caustic Soda (20%)	A	A	A	D	A	A	C	D	A		A	A	B	A	A	D	C	C	B	A	A	C	D	A	A	D	B	A				
Sodium Hydroxide/Caustic Soda (50%)	A	B		D	A	A	C	D	B		D	A	B	A	A	D	C	C	C	A	B	C	D	A	D	D	D	C				
Sodium Hydroxide/Caustic Soda (80%)	A	D		D	A	B	C	D	C		A	B	A	A	D	C	C	C	A	B	C	D	A	B	D	D	C	B				

A — No effect — Excellent

B — Minor effect — Good

C — Moderate effect — Fair

D — Severe effect — Not recommended

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.

	302 Stainless Steel	304 Stainless Steel	316 Stainless Steel	440 Stainless Steel	Aluminum	TITANIUM	HASTELLOY C	KYNAR	PVC (Type 1)	RYTON	CARBON	CERAMIC	CERAMAGNET "A"	VITON	BUNA N (NITRILE)	Silicon	Neoprene	Ethylene Propylene (EPM)	Rubber (Natural)	Epoxy
	C	C	C	C	C	A	A	D	D	D	A	A	A	B	C	D	D	B	C	
Sodium Hypochlorite/Bleach ³ (to 20%)																				
Sodium Hypochlorite/Bleach	D	D	D	A	A	D	D	D	A	A	A	A	A	C	C	D	B	C	A	
Sodium Hyposulfite	A	A	D			D					A							C	C	C
Sodium Metaphosphate ²	A	A	A			C	C	B	B		A	B	A	D	A	B	B	B	A	
Sodium Metasilicate	A	A	B			B	C	C			A	D			A	A	A	D	A	A
Sodium Nitrate	B	A	A	A	A	B	B	C	A	B	A	B	A	B	A	A	A	D	C	
Sodium Perborate	B	C	B			C	C	B	B		A	A	B	A	A	A	A	B	D	B
Sodium Peroxide	B	A	A	C		B	C	C	D	C	A	A	D	D		A	A	C	D	B
Sodium Polyphosphate (Mono, Di, Tribasic)	A	A	D	A	A	C					A	A	B			A	A	A	A	A
Sodium Silicate	B	A	B	A	C	A	B	C	C	B	A	B	A	C	A	A	A	A	A	A
Sodium Sulfate	B	A	A	C	B	A	B	B	B	A	A	A	B	A	B	A	A	A	A	C
Sodium Sulfide	B	A	B	D	A	B	D	D	A	B	A	B	A	B	A	A	A	C	A	A
Sodium Sulfite	C	C	C	A	A	C	A			A	A	A		D	A	A	A	A	A	A
Sodium Tetraborate		A								A		A	B			A	A	A	A	A
Sodium Thiosulphate ("Hypo")	A	A	A	B	A	D	D	C	B	A	A	A	C	A	A	A	A	B	A	C
Sorghum	A	A					A					A	A			A	A	A	A	A
Soy Sauce	A	A	A			A	D				A	A	A			A	A	A	A	D
Stannic Chloride	D	D	D	D	A	B	D	D	D	A	A	A	C	A	B	A	A	A	D	A
Stannic Fluoborate		A					D				A	C				A	A	A	A	A
Stannous Chloride	D	D	C	D	A	A	D	D	D	A	A	A			D	A	C	D	D	A
Starch	B	A	A	A	A		B	C	C	A	A	A	A	A	B	A	A	A	A	A
Stearic Acid ²	B	A	A	A	B	A	A	C	C	C	A	A	B	A	A	D	A	A	B	B
Stoddard Solvent	A	A	A	A	A	A	A	B	B	A	A	D	A	D	A	A	A	A	B	D
Styrene	A	A	A	A		A		A			A	A	A			A	A	B	D	D
Sugar (Liquids)	A	A	A	A	A	A	A	B	B		A	A	A	B	A	A	A	A	B	A
Sulfate Liquors	C	C	B	A	C							D			A	A		C		A
Sulfur Chloride	D	D	D	D		C	D			A	C	A	D	A	D	A	C	A	D	D
Sulfur Dioxide ²	A	A	C	A	B	B		B	D	B	A	D	B	D	C	D	A	A	D	C
Sulfur Dioxide (dry)	A	A	A	A	A	A	C	A	B	A	D	A	A	D	A	A	D		D	D
Sulfur Trioxide (dry)	A	A	C	A		B	B	B	A	B	A	D	D	D		B	A	A	D	B
Sulfuric Acid (to 10%)	D	C	C	C	A	A	D	D	D	A	A	B	A	D	D	B	A	A	C	D
Sulfuric Acid (10% - 75%) ²	D	D	D	D	C	B	D	D	D	A	A	B	B	D	C	A	B	A	C	D
Sulfuric Acid (75% - 100%)	D				D	B	D			A	B	A	A	D	B	C	A	A	D	D
Sulfurous Acid	C	C	B	C	C	A	B	D	D	D	A	B	A	D	D	B	A	B	A	C
Sulfuryl Chloride										A	A						A			A
Syrup	A	A	A	A		D			A		A	A	B	A	A	A	A	A	B	A
Tallow	A	A	A							A	A	A	C		A	A	A	A	A	
Tannic Acid	B	A	A	A	C	A	B	B	C	C	A	A	B	A	B	A	A	A	A	A
Tanning Liquors	A	A	C	A	A	A			A	B	A	B			A	A	A	C		
Tartaric Acid	B	A	B	B	C	A	B	A	C	D	D	A	B	A	B	A	A	A	D	C
Tetrachlorethane		A			A	A				D	A	D	A	A		A	A	A	A	D
Tetrahydrofuran	A	A	D			D	D	A	D	D	A	D	A	A	D	C	A	A	D	D
Toluene, Toluol ³	A	A	A	A	A	A	A	A	A	D	D	A	D	D	D	A	A	A	C	D
Tomato Juice	A	A	A	A		C	C	C			A	B	A	B	A	A	A	A	A	A

A — No effect — Excellent

B — Minor effect — Good

C — Moderate effect — Fair

D — Severe effect — Not recommended

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.

	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-3806)	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
Trichlorethane		C A	C	A A	C																					D	D	D	D	A		
Trichlorehylene ²	B A A		B A A	B A C B A D										A D A C D D D	D C A A C A D												D	D	D	D	A	
Trichloropropane		A			A									D A D												A A	A A	A		A		
Tricresylphosphate		A		B A A									D	A C C											A A	B D	D A		A			
Triethylamine					A								A	B D											A A	A A	D B		A			
Turpentine ³	B A A		C	A B C B B A A B A D A A									D B A A A A												A D	D D	D A					
Urine		A A B		C B				A					A A A A B A A A A A												A A	A A	A A	D A	A			
Vegetable Juice	A A A	A		C D									A A A A A A A A A A A											A A	A A	B D	D A	A				
Vinegar	A A A A D	A A	B B C D A A										A A B A B B A A A A A												B A C A							
Varnish (Use Viton for Aromatic)	A A A A A		A B C										A D A A A A A A A A A												A A A A A A B C D	D A						
Water, Acid, Mine	A A C		C D C					A B					A D A B A B A A A A A												A B A A	A A	B	B A	A			
Water, Distilled, Lab Grade 7	A A B		A D					A B A A A A A A A A A					A A A A A A A A A A A												B A A A							
Water, Fresh	A A A A A		A C B D					A B A A A A A A A A A					A A A A A A A A A A A												B A A A							
Water, Salt	A A B		B C D					A B					A A A A A A A A A A A												A A A A A A A A A A		B A A A					
Weed Killers	A A C		C											A A A A A A A A A A A											A A	A A B	C		A			
Whey	A A B														A											A A	A A			A		
Whiskey and Wines	A A A A D		B B D D					A					B A A A A A A A A A A												A A A A A A A A A A	B A A A A A A A A A A						
White Liquor (Pulp Mill)	A A		A D C					A					A A A D A A A A A A A												A A A A A A A A A A	A A A A A A A A A A						
White Water (Paper Mill)	A A			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					
Xylene ²	A A A A A		A A A A B A D					A D A A A A D D D A A A					A D A A A A D D D A A A												D A A A A A A A A A A	D D D D D A						
Zinc Chloride	D D B B D A B		D D D D D A A					A A C 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						
Zinc Hydrosulphite		A D	D D										A C											A A A A A A A A A A	A A A A A A A A A A			A A A A A A A A A A				
Zinc Sulfate	B A A A D A B		B C C D A C B					B A A C A B A A C A					B A A A A A A A A A A												A A A A A A A A A A	A A C A						

A — No effect — Excellent

B — Minor effect — Good

C — Moderate effect — Fair

D — Severe effect — Not recommended

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.

NOTES