_	70°F	140°F	212°F (100°C)	_	70°F	140°F	(
Reagent	(21°C)	(60°C)	(100°C)	Reagent	(21°C)	(60°C)	
_				Barium sulfide	S	S	
A (' ' (400()				Beer	S	S	
Acetic acid (10%)	S	S	•	Beet Juice	S	S	
Acetic acid (50%)	S	S	0	Benzaldehyde	S	S	
Acetic acid (100%)	S	S		Benzene	0	U	
Acetic anhydride	S	S		Benezene Sulfonic Acid, 10%	S	S	
Acetone	S	S		Benzoic Acid	S		
Acetonitrile	S			Benzyl alcohol	S	S	
Acetophenone	0	0	U	Benzyl chloride	S	S	
Almond Oil	S	S		Bismuth carbonate	S	S	
Aluminum ammonium sulfate	S	S		Bluing	S	S	,
Aluminum chloride	S	S	0	Borax	S	S	,
Aluminum fluoride	S	S		Boric acid	S	S	
Aluminum hydroxide	S	S		Brandy	S	S	
Aluminum nitrate	S	S	S	Brake fluid	S	0	
Aluminum potassium sulfate	S	S		Brine	S	S	,
Alums (all types)	S	S		Bromic acid	U	U	
Ammonia (anhydrous)	S	S		Bromine	U	U	
Ammonia (30% aqueous)	S	S		Bromine water	U	U	
Ammonium bi-fluoride	S	S		Butane	0		
Ammonium carbonate	S	S	S	Butyl acetate	U	U	
Ammonium chloride	S	S	0	Butyl acrylate	U	U	
Ammonium fluoride (25%)	S	S	O	Butyl alcohol	S	S	
Ammonium hydroxide	S	S		Butyl Phthalate	S	S	
Ammonium nitrate	S	S	c	С			Į
Ammonium nitrate Ammonium sulfate	S	S	S S	Calcium bisulfate	S	S	
			3	Calcium carbonate	S	S	
Ammonium sulfide	S	S		Calcium chlorate	S	S	
Ammonium thiocyanate	S	S		Calcium chloride	S	S	(
Amyl acetate	0	U		Calcium hydroxide	S	S	,
Amyl alcohol	S	0	U	Calcium hypoclorite	S	S	
Amyl chloride	U	U	•	Calcium nitrate	S	S	
Aniline	S	S	0	Calcium soap grease	S	0	
Anisole	0	0	U	Calcium sulfate	S	S	
Antimony trichloride	S	S		Calgonite (1%)	S	S	
Apple Juice	S	S	S	Camphor Oil	U	U	
Aqua regia	0	0		Carbon dioxide (dry)	S	S	
Arsenic acid	S	S		Carbon dioxide (wet)	S	S	
Aviation fuel	0	0		Carbon disulfide	0	U	
В				Carbon monoxide	S	S	
Barium carbonate	S	S		Carbon tetrachloride	U	U	
Barium chloride	S	S	0	Carbonic acid	S	S	
Barium hydroxide	S	S		Castor oil	S	S	
Barium soap grease	S	0		Caustic Soda, conc.	S	S	
Barium sulfate	S	S		Cellosolve	S	S	

Legend: S = Satisfactory O = Some attack U = Unsatisfactory 1 of 5



Reagent	70°F (21°C)	140°F (60°C)	212°F (100°C)	Reagent	70°F (21°C)	140°F (60°C)	212°F (100°C)
Cetyl alcohol	S			Ethylene chloride	U	U	
Chlorine (dry)	U	U		Ethylene chlorohydrin	S	S	
Chlorine (wet)	0	U		Ethylene dichloride	S		
Chloroacetic acid	S			Ethylene glycol	S	S	
Chlorobenzene	U	U		Ethylene oxide	S		
Chloroform	0	U		F			
Chlorosulfonic acid	U	U		Ferric chloride	S	S	
Chromic acid (10%)	S	S		Ferric nitrate	S	S	
Chromic acid (50%)	S	S		Ferric sulfate	S	S	
Chromic acid (80%)	S			Ferrous chloride	S	S	
Cider	S	S		Ferrous nitrate	S	S	0
Citric acid	S	S		Ferrous sulfate	S	S	_
Clorox	S	S	S	Fluorine	U	Ü	
Clove Oil	0	U	U	Fluosilicic acid	S	S	
Copper chloride	S	S	•	Formaldehyde	S	S	0
Copper cyanide	S	S		Formic acid (10%)	S	S	Ū
Copper fluoride	S	S		Formic acid (100%)	S	Ü	
Copper nitrate	S	S		Freon (12, 22)	U		
Copper sulfate	S	S		Fructose	S	S	
Corn oil	S	S		Fruit juice	S	S	
Cottonseed oil	S	S		Fuel oil	0	0	
Cresol	S	S		Furfural	U	U	
Cuprous chloride	S	S		G	U		
Cyclohexane	S	0		Gasoline	0	U	
Cyclohexanol	S	0		Gelatin	S	S	
Cyclohexanone	0	U		Glucose	S	S	
D	0	U		Glycerol	S	S	S
Decalin	U	U		Glycol	S	S	0
Developers (photographic)	S	S		Glycolic acid	S	S	O
Dextrin	S	S		H	3	3	_
Dibutyl phthalate	S	S		Heptane	U	U	U
Dichloroethylene	S	3		Hexadecyl alcohol	S	S	U
Diethanolamine	S	S		Hexane	0	U	
Diethyl ether	0	0		Hydrobromic acid (50%)	S	S	
Diglycolic acid	S	S		Hydrochloric acid (20%)	S	S	0
• •	S	S		Hydrochloric acid (100%)	S	S	0
Diisooctyl phthalate	S S	S		Hydrofluoric acid (100%) Hydrofluoric acid (35%)			O
Dimethyl phthalate Dioctyl Phthalate			11		S	0	
•	U S	U	U	Hydrogen chloride gas (dry)	S	S	
p-Dioxane	3	0		Hydrogen peroxide (30%)	S	0	11
Ethonolomino	C	C		Hydrogen peroxide (90%)	0	0	U
Ethanolamine	S	S		Hydrogen sulfide	S	S	
Ethyl acetate	S	S	0	Hydroiodic acid	U	U	
Ethyl alcohol	S	S	S	Hydroquinone	S	S	
Ethylamine	S	S					
Ethyl chloride	0	0					
Ethyl ether	0	0		Igepal	S	S	

Legend: S = Satisfactory O = Some attack U = Unsatisfactory 2 of 5



Reagent	70°F (21°C)	140°F (60°C)	212°F (100°C)	Reagent	70°F (21°C)	140°F (60°C)	212°F (100°C)
Iodine (dry)	S	S		Motor oil	S	S	
Iodine (wet)	U			Mustard Paste	S		
Isooctane	U			N			
Isopropyl alcohol	S	S		Naphtha	S	S	
J				Naphthalene	S	S	S
Jet fuel (JP-4 and JP-5)	0	U		Neat's Foot Oil	S		
K				Nickel chloride	S	S	
Kerosene	0	U		Nickel nitrate	S	S	0
L				Nickel sulfate	S	S	S
Lactic acid	S	S		Nitric acid (10%)	S	S	S
Lacquer	S	Ū		Nitric acid, conc.	0	U	Ū
Lanolin	S	S		Nitric acid (fuming)	U	Ü	
Lead acetate	S	S	S	Nitric/sulfuric acid (50/50)	U		
Lemon oil	0	3	3	Nitrobenzene	S	0	
	S			Nitrous acid	0	O	
Ligroin							
Lime Sulfur	S	0		Nutmeg Oil	U	U	U
Linseed oil	S	S		Olais asid		0	
Lubricating oil	S	0		Oleic acid	S	S	
Lye	S			Oleum	U	•	
M				Olive oil	S	S	
Magnesium carbonate	S	S	S	Orange Juice	S	_	
Magnesium chloride	S	S	0	Oxalic acid	S	S	
Magnesium hydroxide	S	S	S	Oxygen	U	U	
Magnesium nitrate	S	S		Ozone	U	U	
Magnesium sulfate	S	S		P			
Magnesium sulfite	S	S		Palmitic Acid	S	S	S
Malic acid	S	0		Paradichlorobenzene	S	S	
Maple Syrup	S			Peanut oil	S	S	
Mayonnaise	S			Perchloroethylene	U	U	
Mercuric chloride	S	S		Phenol (10%)	S	S	0
Mercuric cyanide	S	S		Phosgene (gas)	U	U	
Mercuric nitrate	S	S		Phosgene (liquid)	U	U	
Mercurochrome	S			Phosphoric acid (30%)	S	S	0
Mercury	S	S		Phosphoric (85%)	S	S	0
Merthiolate (tincture)	S	S		Phosphorus	S		
Methane	S	S		Phthalic acid	S		
Methanol	S	S		Picric Acid	S		
Methyl cellosolve	S			Polyvinyl acetate	S		
Methyl chloride	U			Potassium bromide	S	S	S
Methylene chloride	S	0		Potassium carbonate	S	S	S
Methyl ethyl ketone	S	S		Potassium chlorate	S	S	0
Methyl isobutyl ketone	S	S		Potassium cyanide	S	S	J
Methylsulfuric acid	S			Potassium dichromate			S
•		S			S	S	3
Milk	S	S		Potassium ferrocyanide	S	S	0
Mineral oil	S	U		Potassium hydroxide	S	S	S
Molasses	S			Potassium nitrate	S	S	

Legend: S = Satisfactory O = Some attack U = Unsatisfactory 3 of 5



Reagent	70°F (21°C)	140°F (60°C)	212°F (100°C)	Reagent	70°F (21°C)	140°F (60°C)	212°F (100°C)
Potassium permanganate	S	0		Т			
Potassium sulfate	S	S	S	Tannic acid (10%)	S	S	
Potassium sulfide	S	S	S	Tartaric Acid	S	S	S
Propanol	S	S		Tea	S	S	S
Pyridine	S			Tetrahydrofuran	S	S	0
R				Tetralin	0	0	0
Rice Bran Oil	S	S		Toluene	U	U	
Rosin, light	S			Tomato Juice	S	S	S
S				Tomato Soup	S	S	S
Safflower Oil	S	0		Tributyl phosphate	S	0	
Sauerkraut	S			Trichloroacetic Acid	S	0	
Shellac	S			Trichloroethylene	Ü	U	
Silicone Oil	S			Tricresyl phosphate	S	S	
Silver cyanide	S	S		Triethanolamine	0	0	
Silver cyanide Silver nitrate	S	S	S	Trisodium phosphate	S	S	
Sodium acetate	S	S	3	Turpentine	S	0	0
Sodium acetate Sodium benzoate	S	S	S	U U	3	U	0
Sodium bicarbonate	S	S	3	Urea	S	C	
						S	
Sodium bisulfate	S	S		Urine	S	S	
Sodium bisulfite	S	S		V			
Sodium bromide	S	S	_	Vanilla	S	S	
Sodium carbonate	S	S	S	Varnish	S		
Sodium chlorate	S	S	0	Vaseline	S	0	0
Sodium chloride	S	S	Ο	Vinegar	S	S	
Sodium cyanide	S	S		W			
Sodium hydroxide, conc.	S	S	S	Water	S	S	0
Sodium Hypochlorite, conc.	S	0	U	Wheat Germ Oil	S	S	
Sodium Nitrate	S	S	S	Whiskey	S	S	S
Sodium Perborate	S			White Spirits	U	U	U
Sodium Phosphate	S	S	S	Wines	S	S	
Sodium sulfate	S	S		X			
Sodium sulfite	S	S		Xylene	0	U	
Sodium Thiosulfate	S	S		Xylol	S		
Soybean Oil	S	S		Ϋ́			
Stannic chloride	S	S		Yeast	S	S	
Stannous chloride	S	S		Z	J		
Starch	S	S		Zinc chloride	S	S	
Sucrose (20%)	S	S		Zinc oxide	S	S	
Sulfamic acid	S	S		Zinc oxide Zinc sulfate	S	S	
Sulfur	0	S U	U	ZIIIC Sullate	J	J	
Sulfur Chloride	0	U	U				
Sulfuric acid (10%)	S	S	S				
Sulfuric acid (50%)	S	S					
Sulfuric acid, conc. Sulfuric acid (fuming)	S U	0	U				
		U					

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Note: The proceeding information concerns general chemical resistance only. Since other factors such as permeation, ESCR and container design are involved, full compatibility testing is recommended. Staining is not considered in this evaluation.

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