

CONVERSION DATA

TO CONVERT	TO	MULTIPLY BY	TO CONVERT	TO	MULTIPLY BY
BAR	PSI	14.5	Grams	Milligrams	10 ³
CENTIMETERS	Inches	0.3937	Grams	Ounces	0.03527
Centimeters	Feet	0.03280	Grams	Ounces (troy)	0.03215
Centimeters	Meters	0.01	Grams	Pounds	2.205x10 ⁻³
Centimeters	Millimeters	10	HORSE-POWER	B.T. Units/min.	42.44
CUBIC CENTIMETERS	Cubic feet	3.53x10 ⁻⁵	Horse-power	Foot-lbs./min.	33.000
Cubic Centimeters	Cubic inches	6.102x10 ⁻²	Horse-power	Foot-lbs./sec.	550
Cubic Centimeters	Cubic meters	10 ⁻⁶	Horse-power	Horse-power (metric)	1.014
Cubic Centimeters	Cubic yards	1.308x10 ⁻⁶	Horse-power	Kg-calories min.	10.70
Cubic Centimeters	Gallons	2.642x10 ⁻⁴	Horse-power	Kilowatts	0.7457
Cubic Centimeters	Liters	10 ⁻³	Horse-power	Watts	745.7
Cubic Centimeters	Pints (liq.)	2.113x10 ⁻³	INCHES	Centimeters	2.540
Cubic Centimeters	Quarts (liq.)	1.057x10 ⁻³	Inches	Millimeters	25.4
CUBIC FEET	Cubic centimeters	2.832x10 ⁴	Inches	Meters	0.0254
Cubic Feet	Cubic inches	1728	Inches	Feet	0.0833
Cubic Feet	Cubic meters	0.02832	INCHES OF MERCURY	Kgs./sq. cm.	0.03453
Cubic Feet	Cubic yards	0.03704	Inches of Mercury	Lbs./sq. ft.	70.73
Cubic Feet	Gallons U.S.	7.48052	Inches of Mercury	Lbs./sq. inch	0.4912
Cubic Feet	Imperial gallons	6.23	INCHES OF WATER	Atmosphere	0.002458
Cubic Feet	Liters	28.32	Inches of Water	Inches of Mercury	0.07355
Cubic Feet	Pints (liq.)	59.84	Inches of Water	Kgs./sq. cm.	0.002450
Cubic Feet	Quarts (liq.)	29.92	Inches of Water	Ounces/sq. inch	0.5781
CUBIC FOOT WATER	Pounds	62.4	Inches of Water	Lbs./sq. ft.	5.202
Cubic Foot Water	Ounces	998.8	Inches of Water	Lbs./sq. inch	0.03613
Cubic Foot Water	Kilograms	28.315	KILOGRAMS	Pounds	2.205
CUBIC INCHES	Cubic centimeters	16.39	Kilograms	Tons (short)	1.102x10 ⁻³
Cubic inches	Cubic feet	5.787x10 ⁻⁴	Kilograms	Grams	10 ³
Cubic inches	Cubic meters	1.639x10 ⁻⁵	LITERS	Cubic centimeters	10 ³
Cubic inches	Cubic yards	2.143x10 ⁻⁵	Liters	Cubic feet	0.03531
Cubic inches	Gallons	4.329x10 ⁻³	Liters	Cubic inches	61.02
Cubic inches	Liters	1.639x10 ⁻²	Liters	Cubic meters	10 ⁻²
Cubic inches	Pints (liq.)	0.03463	Liters	Cubic yards	1.308x10 ⁻³
Cubic inches	Quarts (liq.)	0.01732	Liters	Gallons	0.2642
FEET	Centimeters	30.48	Liters/min.	Gallons/min.	0.264
Feet	Inches	12	Liters	Pints (liq.)	2.113
Feet	Meters	0.3048	Liters	Quarts (liq.)	1.057
Feet	Yards	1/3	METERS	Centimeters	100
FEET OF WATER	Atmospheres	0.02950	Meters	Feet	3.281
Feet of Water	Inches of Mercury	0.8826	Meters	Inches	39.37
Feet of Water	Kgs. sq. cm.	0.03048	Meters	Kilometers	10 ⁻³
Feet of Water	Lbs. sq. ft.	62.43	Meters	Millimeters	10 ³
Feet of Water	Lbs. sq. inch	0.4335	Meters	Yards	1.094
GALLONS, U.S.	Cubic centimeters	3785	MILLIMETERS	Centimeters	0.1
Gallons, U.S.	Cubic feet	0.1337	Millimeters	Inches	0.03937
Gallons, U.S.	Cubic inches	231	POUNDS (AVOIR.)	Ounces	16
Gallons, U.S.	Cubic meters	3.785x10 ⁻³	Pounds (avoir.)	Drams	256
Gallons, U.S.	Cubic yards	4.951x10 ⁻³	Pounds (avoir.)	Grains	7000
Gallons, U.S.	Fluid ounces	128	Pounds (avoir.)	Tons (short)	0.0005
Gallons, U.S.	Liters	3.785	Pounds (avoir.)	Grams	453.5924
Gallons, U.S.	Pints (liq.)	8	Pounds (avoir.)	Pounds (troy)	1.21528
Gallons, U.S.	Quarts (liq.)	4	Pounds (avoir.)	Ounces (troy)	14.5833
Gallons, U.S.	Imperial gallons	0.83267	Pounds (avoir.)	Kilograms	0.454
GALLONS (IMP)	U.S. gallons	1.20095	POUNDS OF WATER	Cubic feet	0.01602
GALLONS, U.S.	Pounds of water	8.3453	Pounds of Water	Cubic inches	27.68
Gallons, U.S.	Kilograms	3.785	Pounds of Water	Gallons	0.1198
GALLONS/MIN	Cubic feet/sec.	2.228x10 ⁻³	Pounds of Water	Imperial gallon	0.10
Gallons/Min.	Liters/sec.	0.06308	POUNDS/SQ. INCH	Atmospheres	0.06804
Gallons/Min.	Liters/Min.	3.785	Pounds/Sq. Inch	Feet of Water	2.307
Gallons/Min.	Cu. ft. hr.	8.0208	Pounds/Sq. Inch	Inches of Mercury	2.036
GRAMS	Dynes	980.7	Pounds/Sq. Inch	Kgs. sq. cm.	0.07031
Grams	Grains	15.43	Pounds/Sq. Inch	Bars	0.06895
Grams	Kilograms	10 ⁻³			

CHEMICAL RESISTANCE GUIDE

This Chemical Resistance Guide is offered to assist in selecting pump materials that are most resistant to the chemicals that may be used with a FLOJET pump.

The information is based on FLOJET laboratory tests, field testing programs and general data from industry sources. It should be used only as a guide in the selection of pump materials. Suitability for the application should be determined by actual use and is the full responsibility of the customer. No warranty, expressed or implied, can be extended by FLOJET where failure is caused by chemical attack on pump materials. Temperature, aeration, concentration and other factors may change the effect of the specific fluid on the pump materials. Data shown is based on results at ambient temperatures, unless otherwise noted. Flojet recommends the use of our Soak Test kit number F100-168, available for free upon your request.

RATING SYSTEM

The **"A" rating** indicates little effect on the physical properties of the material (Generally Satisfactory).

The **"B" rating** indicates minor to moderate effect (Generally Satisfactory But Should Be Qualified By Testing).

The **"C" rating** indicates a change in the physical properties in excess of acceptable tolerances could occur (Generally Not Satisfactory, Must Be Qualified By Testing).

The **"D" rating** indicates rapid physical deterioration, swelling of check valves, diaphragm or chemical attack on the pump housing material (Not Satisfactory).

Where no rating is shown data is not currently available, pump materials should be qualified by testing.

It is recommended that the pump be thoroughly flushed with water or other neutralizing agent after each use whenever possible.

	PLASTICS				ELASTOMERS				ALLOYS		
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Acetaldehyde	A	A	D		C	D	A	B		A	A
Acetamide	A	A	A		B	A	B	A		A	
Acetate Solvents (crude)	D	A	A		D	D	C	V		A	
Acetate Solvents (pure)	D	A	B		D	D	C	B		A	
Acetic Acid, Glacial	A	D	A		D	C	B	B		A	A
Acetic Acid, 10%	A	C	A		C	B		B		A	
Acetic Acid, 20%	A	B	A		C	B	B	B		A	
Acetic Acid, 50%	A	D	A		C	A		B		A	
Acetic Acid, 80%	B	D	A		C	C	B	A		A	
Acetic Acid, pure	A	D	A		D	C	V	V	A	A	A
Acetic Anhydride	C	A	C		D	D	C	C		A	A
Acetone	A	A	C	A	D	D	B	A		A	
Acetophenone	C				D	C		A		B	
Acetyl Chloride	D	D	D		A	D	C	D		B	
Acetylene	A	A	A		A	B	B	A		A	
Acetylene Tetrabromide	A		A		A	D				A	
Acetylsalicylic Acid	A	A								A	
Acrylonitrile	A	A	A		D	D	D	D	A	B	
Adipic Acid						A					
Aero Lubriplate					A	A	B				
Aero Safe 2300					D	D	C				
Alcohol - Amyl	A	A	B		C	B	D	A			
Alcohol - Benzyl	A	D	D		A	D		B		A	A
Alcohol - Butyl	A	A	A		A	A	B	B		A	A
Alcohol - Diacetone	A	A	B		C	D	D	A		A	A
Alcohol - Ethyl	A	A	B		B	C	B	A		A	A
Alcohol - Hexyl		A	A		B	A	B			A	A
Alcohol - Isobutyl	A	A	A		A	B	A	A		A	A
Alcohol - Isopropyl	A	B	A		A	B	A	A		A	A
Alcohol - Methyl	A	A	A		C	A	A	A		A	A
Alcohol - Octyl	A	A	A		B	B	B	A		A	A
Alcohol - Propyl	A	B	A		A	A	A	A		A	A
Aluminum Chloride, 20%	A	C	B		A	A	B	A		C	A
Aluminum Chloride	A	D	B		A	A	B	A		C	B
Aluminum Citrate											
Aluminum Fluoride	A	A	A		C	A	B	A		C	
Aluminum Formate					D	D					
Aluminum Hydroxide	A	A	A		B	A		A		A	
Aluminum Nitrate	A		A		B	A					
Aluminum Oxychloride	A				D						
Aluminum Phosphate					A	A					
Aluminum Potassium Sulfate 10%	A	D	A		A	A	A	A		B	C
Aluminum Potassium Sulfate	A	D	A		A	A	A	A		A	
Aluminum Sulfate	A	A	A		A	A	A	A		B	B
Amines	B	D			D	D	B	B			
Ammonia, 10%	A	A	C		C	D			A		
Ammonia, anhydrous	A	A	A		D	C	D	A		A	B
Ammonia, liquid	A	B			D	C		A		A	
Ammonia Nitrate	A	D			D	C		A		A	
Ammonium Acetate					A	A		A			
Ammonium Alum						B					
Ammonium Bichromate						A		A			
Ammonium Bifluoride	A		A		A	B		A			
Ammonium Bisulfide	A										
Ammonium Carbonate	A	A	B		A	C	A			B	B
Ammonium Casenite										A	
Ammonium Chloride	A	C	A		A	B		A		C	B
Ammonium Dichromate						A					
Ammonium Fluoride						B					
Ammonium Fluoride, 10%	A				A	A					

	PLASTICS				ELASTOMERS				ALLOYS		
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Ammonium Fluoride, 25%	A										
Ammonium Hydroxide	A	A	A	C	B	C	A	A		A	B
Ammonium Metaphosphate	A		A		A	A		A			
Ammonium Nitrate	A	B	A		A	A		A		A	D
Ammonium Oxalate		B				A				A	
Ammonium Persulfate	A	C	A		B	C		B		A	D
Ammonium Phosphate, Dibasic	A	C	A		A	A	A	A		C	
Ammonium Phosphate, Monobasic	A	B	A		A	A	A	A		C	
Ammonium Phosphate, Tribasic	A	B	A		A	A	A	A		B	
Ammonium Sulfate	A	A	A		A	A	A	A		B	B
Ammonium Thiosulfate			A			A				A	
Amyl Acetate	C	A	A		D	D	D	A		A	A
Amyl Alcohol	B	A	B		B	B	D	A		A	A
Amyl Chloride	D	C	D		B	D	D				A
Anniline	C	C	B	B	D	D	D	B	A	B	B
Anti-Freeze	D	D		A	A	A			A	A	
Aqua Regia	B	D	C		B	D	D			D	D
Arochlor	D	A	B		A	C	B	B		B	A
Aromatic Hydrocarbons	D	D			A	C	D	D		B	
Arsenic Acid	A		B		A	A	A	A		B	B
Asphalt	B	A	C		A	B	D	D		A	
Barium Carbonate	A	A	B		A	A		A		B	B
Barium Chloride	A	A	A		A	A	A	A		B	A
Barium Cyanide	D		B		A	C		A		B	
Barium Hydroxide	B	A	B		A	B	A	A		B	B
Barium Nitrate	A	A	B		A	A		A		B	B
Barium Sulfate	A	A	A		A	A	A	A		A	C
Barium Sulfide	B	A	A		A	A	A	A			
Beer	A	A	A	A	A	A	A	A		A	A
Beer Sugar Liquid	B	A			A	A	A	A		A	
Benzaldehyde	C	C	D		D	D	D	C		A	A
Benzalkonium Chloride											
Benzene	C	A	D	A	A	D	D	D		B	B
Benzoic Acid	B	C	C		A	D	B	C		B	B
Benzol	A	D	C		A	D		B		A	
Benzyl Benzote						A	D	C			
Benzyl Chloride						D	D	D			
Black Liquor	A	A		A	A	A	B	B			
Bleach	A	C	A		A	D	B	A			
Borax	A	A	A		A	C	B	A		A	A
Boric Acid	A	B	A		A	A	A	A		B	A
Brake Fluid				A	D	C	C	A	A		
Brewery Slop					A	A				A	
Brine	A				A	A					
Brine Acid	A		A		A	A		A			
Bromic Acid	D					A		B			
Bromine Dry		D			A	D	D	D			A
Bromine Gas		D			A	D	D	D			A
Bromine Liquid	D	D	D		A	D	D	D		D	A
Bromine Water	C	D	D		A	C	D	D			A
Bromobenzene							D				
Bromotoluene	D										
Butadiene	C	A	D		A	C	D	C		A	
Butane	A	A	C		A	A	D	C		A	B
Butanediol			A		A	A		D			
Butter			A		A	A	B	A		A	
Buttermilk	A	B	A		A	A				A	A
Butylene		B	C		A	B	D	D		A	
Butyl Acetate	B	A	C		D	D	D	B	A	B	A

	PLASTICS				ELASTOMERS				ALLOYS		
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Butyl Acrylate Pure	D				D			A			
Butyl Acrylate Saturated	D				D	C		D			
Butyl Amine	D				D	C	B	D			B
Butylebenzene					A	D					
Butyl Benzorte					A	D		A			
Butyric Acid	C	B	C		C	D		B		B	B
Calcium Bisulfate							A			A	
Calcium Bisulfide	A	A			A	A		C		B	
Calcium Bisulfite	B	A	A		A	A	A	D		A	B
Calcium Carbonate	A	A	B		A	A	A	A		B	B
Calcium Chlorate					A	C		A			
Calcium Chloride	A	A	B		A	A	A	A		B	B
Calcium Hydroxide	A	A	B		A	B	A	A		B	A
Calcium Hydrochloride	A	C	B		A	B	B	B		C	B
Calcium Sulfate	A	D	B		A	A		A		B	B
Calgon	A	A		B	A	A		A		A	
Cane Juice	C	A			A	A	A	A		A	
Carbolic Acid	B	D	B		A	C	D	B		B	
Carbon Bisulfide	C	A	D		A	C		D		B	
Carbon Dioxide (wet or dry)	A	A	B		A	C	B	B		A	A
Carbon Monoxide	A	A	A		A	A	A	A		A	A
Carbon Tetrachloride	D	C	D		B	C	D	D		B	B
Carbonated Water	B	A	A		A	A				A	
Carbonic Acid	A	A	A		A	B	A	A		B	A
Casein					A	A		A			
Castor Oil	A		C		A	A	A	B			
Catsup	A	A			A	A			C		A
Caustic Lime					B	A		A			
Caustic Potash	A				D	A		A			B
Caustic Soda	A				B	C		A			A
Chloral Hydrate	A	D			A	C					
Chloracetic Acid	C	D	C		D	C		B		C	A
Chloric Acid		D				D				C	
Chloric Acid, 20%	D										
Chlorinated Glue					A	C		B		A	
Chlorine Dioxide	C				D						
Chlorine Dry	C	D	B		C	D	D	B		B	B
Chlorine Gas Dry	D				B	C		D			
Chlorine Gas Wet	D				C	C		D			
Chlorine Liquid	C	D	C		A	C				D	A
Chlorine Water	C		A		A	C		B		C	B
Chlorobenzene (Mono)	C	B	C		A	D	D	D		B	B
Chloroform	C	D	C		A	D	D	D		A	A
Chlorosulfonic Acid	D	D	D		D	D	D	D		D	A
Chlorox Bleach	D	A	B		A	B		B		A	
Chocolate Syrup	A	A			A	A				A	
Chresylic Acid, 50%			D		A	D					
Chrome Alum			A		A	A	A				
Chromic Acid, 05%	C	D	B		A	D	C	A		A	A
Chromic Acid, 10%	B	D	A		B	D	C	B		B	A
Chromic Acid, 20%	C	D	A		B	C	C	B			
Chromic Acid, 30%	C	D	A		A	D	C	B		B	
Chromic Acid, 50%	C	D	C		A	D	C	B		B	D
Chromium Alum	A				A			A			
Cider	A		B		A	A				A	
Citric Acid	A	A	A	A	A	A	A	A		A	A
Citric Oils	A				A	A		B		A	
Cobalt Chloride					A	A	B	A			
Coconut Oil	A		A		A	A	A	A		A	
Coffee	A	A			A	A	A	A		A	

	PLASTICS				ELASTOMERS				ALLOYS		
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Copper Chloride	A	A	B		A	A	A	A		C	B
Copper Cyanide	A	A	A		A	A	A	A		A	B
Copper Fluoborate					A	B				D	B
Copper Nitrate	A	D	B		A	A				B	C
Copper Culfate	A	C	B		A	A	A	A		B	B
Cream	A	A			A	A				A	
Cresols	D	D	C		A	D	D	D		A	B
Cresylic Acid	D	D	B		A	D	D	D		A	B
Cyanic Acid					A	C					
Cyclohexane	C	A	B		A	B	D	D	D	A	B
Detergents	B	A	A	B	A	A	A	A		A	B
Diacetone Alcohol	A				D	D	D	A			
Diazo Salts	A		A								
Dibutyl Amine					C	C	C	D			
Dibutyl Ether					C	C	D	C			
Dibutyl Phthalate	B	A			B	D	B	A			B
Dibutyl Sebacate					C		B	B			
Dichlorethane	A	C	C		C						B
Dichloromethane					B	D		D			
Diesel Fuel	B		C	A	A	A	D	D		A	B
Diethylamine	B	A	D		C	C	B	B			B
Diethyl Ether	B			A	C	D	D	C	A		B
Diethyl Oxide					D	B		D			
Diethylene Glycol	A	A	B		A	A	D	A		A	
Diglycolic Acid	A				A			A			
Diisobutyl Ketone					D			D			
Diisobututylene					A		D	D			
Diisooctyl Phthalate					B			B			
Diisopropyl Ketone					D		D	B			
Dimethyl Amine	A				D	B		C			
Dimethyl Benzene					A	D		D			
Dimethyl Ether					B	B		B			
Dimethyl Formamide	A	A		A	C	B	B	B	A		
Dimethyl Ketone					D	D		A			
Dimethyl Phthalate					B	C		B			
Dimethylamine	A				D			D			
Diocetyl Phthalate	D		D		A	D	C	B			
Dioxane	B	A			D	D	D	B			
Diphenyl Oxide	D		D		A	D	C	D			B
Dyes		A			A						A
Epsom Salts	A	A	A		A	A	A	A		B	A
Ethane	C	D	D		A	A	D	D		A	A
Ethanolamine	B	A			D	B	B	B		A	B
Ether	D	A	C		C	D	D	C		B	B
Ethyl Acetate	B	A	B	A	D	D	B	B		B	A
Ethyl Chloride	C	A	B		A	A	D	A		A	B
Ethyl Sulfate					A	A				D	
Ethylene Chloride	C	B	C		B	D	D	D		A	B
Ethylene Dichloride	B	B	C	A	A	D	D	C		A	A
Ethylene Glycol	A	B	A	B	A	A	A	A		A	B
Ethylene Oxide	C	A	C		D	D	D	C		C	
Fatty Acids	B	A	B		D	D	D	C		A	A
Ferric Chloride	B	C	A		A	B	B	A		C	C
Ferric Nitrate	B	A	B		A	A	C	A		A	B
Ferric Sulfate	B	A	A		A	A	B	A		A	B
Ferrous Chloride	A	C	A		A	A				C	D
Ferrous Sulfate	A	C	A		A	A		A		B	B
Flouboric Acid	A	D	B		A	A		A		C	A
Fluorine	C	D	C		B	C	D	A		C	B
Fluosilic Acid	A	D	B		A	A	B	A			B

	PLASTICS			ELASTOMERS				ALLOYS			
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Formaldehyde	C	D	B		D	C	B	A	A	B	
Formaldehyde, 40%	A	C	A		A	B		A	A	B	
Formic Acid	A	C	B		C	B	B	A	C	B	
Freon 11	D	D	C		A	B	D	D	C	A	
Freon 12	D	D	C		B	A	D	B		A	
Freon 22	A	B	A		D	D	D	A		A	
Freon 113	D	D			B	A	D	D		A	
Freon T.F.	D	D	D		B	A	D	D		A	
Fructose	A	A	A		A	A		A		A	
Fruit Juice	A	A	B		A	A				A	
Fruit Pulp	A	A			A					A	
Fuel Oils	B	A	D		A	A	C	D		A	B
Furan Resin	D	D			D	D	D	C		A	A
Furfural	C	B	D		D	D	D	B		A	B
Gallic Acid	A	B	D		A	A		A		B	B
Gasoline	D	A	D	A	B	A	D	D		A	A
Gelatin	A	A	A		A	A	A	A		A	B
Glucose	A	B	A		A	A	A	A		A	
Glue		A	A		A	A	A	A		A	
Glycerin	A	A	A		A	A	A	A	A	A	A
Glycerol	A	A	A		A	A	A	A	A	A	A
Glycolic Acid	A		A	C	A	A	A	A		A	B
Gold Monocyanide					A	A				A	
Grape Juice		A	B		A	A				A	
Grease					A	D				A	
Heptane	C	A	C	A	A	A	D	D		A	B
Hexane	C	A	C		A	A	D	D		A	B
Honey	A	A	B		A	A				A	
Hydraulic Oil (Petroleum)	D	A	D		C	A	C	D		A	
Hydraulic Oils (Synthetic)	D	A	A		A	C				A	
Hydrazine	C				A	B	C	A		A	
Hydrobromic Acid 20%	A	D	B		A	D	A	D		B	
Hydrobromic Acid	A	D	A		A	D	D	A		D	B
Hydrochloric Acid dry gas	B	A	A					C		D	A
Hydrochloric Acid, 20%	B	D	A	D	A	C	C	A	A	D	B
Hydrochloric Acid, 37%	B	D	C		A	B	B	A		D	A
Hydrochloric Acid, 100%	D	B			A	D	D	C		D	A
Hydrocyanic Acid	A	C	A		A	B	C	A		B	A
Hydrocyanic Acid (Gas 10%)	A				A	B		A			
Hydrofluoric Acid, 20%	A	C	A		A	C	D	A		C	B
Hydrofluoric Acid, 50%	A	D	A		A	C	D	A		D	B
Hydrofluoric Acid, 75%	C	D	C		A	D	D	C		D	B
Hydrofluosilicic Acid	A	D	B		A	B	D	A		D	B
Hydrogen Gas	A	A	A		A	A	C	A		A	A
Hydrogen Peroxide, 10%	B	C	A	A	A		B			B	D
Hydrogen Peroxide, 30%	B	D	C		A		B			B	D
Hydrogen Peroxide, 50%	B	D	C		A		B			A	C
Hydrogen Peroxide, 100%	B	D	C		A	B	B	A		A	A
Hydrogen Sulfate (aqua)	A	C	A		D	D	C	A		C	A
Hydrogen Sulfide (dry)	A	C	A		D	A	C	A		B	B
Hydroxyacetic Acid			A		A	A		A			
Hydroxyacetic Acid (70%)			A		A	A		A			
Hydroxylamine Sulfate	A							A			
Hypochlorous Acid	A		A		B	D		B		D	
Ink	A	C	D		A	A				A	
Iodine	B	D	B		A	B		B		C	B
Isotane	D	D			A	A					
Isopropyl Acetate	B	B	B		D	D	D	B		B	B
Isopropyl Ether	C	A	C		D	B	D	D		A	
Jet Fuel JP-3	A	A	C		A	A	D	D		A	A

	PLASTICS			ELASTOMERS				ALLOYS			
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Jet Fuel JP-4	B	A	C		A	B	D	D		A	A
Jet Fuel JP-5	B	A	C		A	A	D	D		A	A
Kerosene	A	A	C	A	A	A	D	D		A	A
Ketones	B	A	C		D	D		C		A	B
Laquer	B	A	C		D	D	D	D		A	
Laquer Thinner	B	A	B		D	D	D	A		A	
Lactic Acid	A	C	B		A	A	A	B		A	B
Lard	A	A	B		A	A	B	C		A	A
Latex	A	A	A		A	A		B		A	
Lead Acetate	A	B	B		D	B	D	A		B	B
Lead Chloride	A				A			A			
Lead Nitrate	A				A	A	B	A		B	B
Lead Sulfamate	A	B	A		A	B	B	A		B	
Ligroin	B	D	C		A	A	D	C		A	
Lime	A	A	B		A	A	B	C		A	
Linoleic Acid	A				B	B	B	D		A	
Linseed Oil	A	A	D	A	A	A	A	B		A	A
Lubricants	A	A	D		A	A	D	D		A	B
Magnesium Carbonate	A		A		A	A		A		A	B
Magnesium Chloride	A	A	A		A	A	A	A		A	A
Magnesium Hydroxide	A	B	A		A	A	A	A		A	B
Magnesium Nitrate	A	A	A		A	A		A		A	B
Magnesium Oxide					A					A	
Magnesium Sulfate	A	A	A		A	A	A	A		B	A
Maleic Acid	A	B	B		A	D	B	D		B	B
Maleic Anhydride	D				A	D		D			A
Mash		A			A	A		A		A	
Mayonnaise		A	B		A	A				A	
Melamine	A	A			A	C		A		D	
Mercuric Chloride	A	D	A		A	A				C	D
Mercuric Cyanide	A	A	A		A	A				B	D
Mercury	B	A	A		A	A	A	A		A	B
Methyl Acetate	D	A	B		D	D	D	B		A	B
Methyl Acrylate	D		B		D	D	D	B			
Methyl Acetone		A			A	D				A	
Methyl Bromide	C	C	D		A	D			D	A	
Methyl Butyl Ketone	D	D	A		D	D	D	A		A	B
Methyl Cellosolve	B	C	B		D	C	D	B		A	
Methyl Chloride	D	C	C		A	D	D	C		A	B
Methyl Dichloride	D	C			A	D	D	D			
Methyl Ethyl Ketone	A	A	B		D	D	D	A	A	A	B
Methyl Isobutyl Ketone	C	A	A		D	D	D	C		A	
Methyl Isopropyl Ketone	D	D	D		D	D	D	B		A	
Methyl Methacrylate	D				D	D	C	D			
Methylamine	D				D	D		A		A	
Methylene Chloride	B	C	C		B	D	D	D		B	A
Milk	B	A	A		A	A	A	A		A	A
Mineral Oil	A	A	D	A	A	A	B	D		A	
Molasses	A	A	A		A	A		C		A	A
Motor Oil	C			A	A	A		D			
Mustard	A	A	A		D	C	A	A		A	A
Naptha	C	A	A		A	C	D	D		A	B
Napthalene	B	A	A		A	D	D	D	A	B	
Natural Gas	A				A	A	A	D			
Neon					A	A	A	A			
Nickle Chloride	A	C	B		A	A	A	A		C	A
Nickle Sulfate	A	A	B		A	A	A	A		B	B
Nitric Acid (5-10%)	A	C	B	D	A	D	C	D		A	D
Nitric Acid (20%)	A	D	C		A	D	D	B		A	D
Nitric Acid (50%)	D	D	C		A	D	D	D		A	D

	PLASTICS				ELASTOMERS				ALLOYS		
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Nitric Acid (Concentrated)	D	D	C		A	D	D	D		A	
Nitrobenzene	B	B	C		B	D	D	D	A	A	C
OILS											
Aniline	A	A			C	D	D	B		A	
Anise		A								A	
Bay					A					A	
Bone	A				A	A				A	
Castor	A	A			A	A	A	B		A	
Cinnamon		A			A					A	
Citric		A			A						
Clove		A			A	A				A	
Coconut	A	A			A	A	A	C		A	
Cod Liver	A				A	A	B	A		A	
Corn	A	A	C		A	A	A	C		A	
Cotton Seed	A	A	B		A	A	A	C		A	
Creosote	C	D	C		A	B	D	D		B	
Diesel Fuel	A	A	C		A	A	D	D		A	
Fuel	C	A	C		A	B	C	D		A	
Ginger		A			A	A		A		A	
Hydraulic	D	A	C		A	A	C	D		A	
Lemon		A			A			D		A	
Linseed	A	A	C		A	A	A	C		A	
Mineral	B	A	B		A	A	C	D		A	
Olive	A	A	A		A	A	D	B		A	
Orange		A			A	A	D			A	
Palm		A			A	A				A	
Peanut	D	A			A	A	A	C		A	
Peppermint		A			A	D				A	
Pine	D	A			A	B	D	A		A	
Rape Seed	D				A	B	D	A		A	
Rosin	A	A	B		A	A				A	
Sesame Seed		A			A	A				A	
Silicone	A	A	A		A	A	C	A		A	
Soybean	A	A	A		A	D	A	C		A	
Sperm					A	A				A	
Tanning					A	A				A	
Oil, Turbine	B		C		A	B	D	D		A	
Oleic Acid	A	B	D	A	B	B	D	C		B	B
Oleum	D	D	A		D	D	D			B	
Oxalic Acid	A	B	A		A	B	B	A		B	B
Oxygen Gas	A				A	C	B	A			
Ozone	C		C		A	D	A	A			
Palmitic Acid	A	B			A	A	D	B			
Paraffin	A	A	B		B	A	D	D		A	A
Pentane	D	A	D		A	A	D	D		C	
Perchloroethylene	C	C	D		A	D	D	D		A	B
Petrolatum	C	D	B		A	A	C	C		A	
Phenols 10%	B	D	A	B	B	D	D	C		B	
Phenols 100%	A	D	B			D	D	D		A	
Phosgene Gas	C				D	D		A			
Phosgene Liquid	D				D	D		A			
Phosphoric Acid < 40%	A	D	B		A	C	D	B		A	A
Phosphoric Acid > 40%	A	B	A		A	C	C	B		B	B
Phosphoric Acid (crude)	B	B	C		A	C	C	B		C	A
Phosphoric Acid (molter)	D										C
Phosphoric Acid Anhydride	A										
Phosphorus Trichloride	C		A		C	D		C		A	D
Photographic Developer	A		B		A	A	A	B		A	
Phthalic Acid	D	B			A			A			B
Phthalic Anhydride	D				A	C		A		B	A

	PLASTICS				ELASTOMERS				ALLOYS		
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Plating Solutions - Antimony	A				A	A				A	
Plating Solutions - Arsenic	A	A			A	A				A	
Plating Solutions - Brass	A	A	B		A	A				A	
Plating Solutions - Bronze	A	A			A	A		A		A	
Plating Solutions - Cadmium	A	C			A	A					A
Plating Solutions - Chrome	A	D			A		D				
Plating Solutions - Copper	A	C			A	A				A	
Plating Solutions - Gold	A	A			A	A				A	
Plating Solutions - Indium	A	D			A	A				A	
Plating Solutions - Iron	A	D			A	A				A	A
Plating Solutions - Lead	A	D			A	A				A	
Plating Solutions - Nickel	A	C			A	A				A	
Plating Solutions - Silver	A	A			A	A		A		A	
Plating Solutions - Tin	A	D			A	A				A	
Plating Solutions - Zinc	A	D			A	A				A	
Potash	A	A	B		A	A				A	
Potassium Bicarbonate	A	A	A		A	A				B	B
Potassium Bromide	A	A	A		A	A				B	A
Potassium Carbonate	A	A	A		A	A				B	B
Potassium Chlorate	A	A	A		A	A				B	B
Potassium Chloride	A	B	A		A	A	A	A		B	B
Potassium Chromate	A	A	A		A	A				B	A
Potassium Cyanide Solutions	A	A	A		A	A	A	A		B	B
Potassium Dichromate	A	D	A		A	A	A	A		B	B
Potassium Ferrocyanide	A	B	A		A	A				B	B
Potassium Hydroxide	A	C	A		B	B	C		A	B	B
Potassium Iodide	A				A	A		A		A	
Potassium Nitrate	A	B	B		B	A	A	A		B	D
Potassium Perborate	A		A								
Potassium Perchlorate	A		A			A		A			
Potassium Permanganate	A	D	A		B	A		A		B	B
Potassium Persulfate	A	A	A		A	A		A			
Potassium Sulfate	A	A	A		A	A	A	A		B	
Potassium Sulfide	A	A	A		A	A	A	A		A	
Potassium Thiosulfate					A	A					
Propane	B	A			A	A	D	D		A	
Propanol					A	A		A	A		
Propargyl Alcohol	A		A								
Propyl Acetate					D	D	D	B			
Propylene					A	D	D	D			
Propylene Dichloride	C		C		D	D		D			
Propylene Glycol	A		B		A	A		A		A	B
Pyridine	A	A	B		D	D	D	B	A	A	A
Pyrogalic Acid	A				A					B	B
Rosins	A	A	B		A	A				A	A
Rum	A	A			A	A		A		A	
Rust Inhibitors	A				A	A				A	
Salad Dressing	A	A			A	A				A	
Sea Water	A	A	A		A	A	A	A	A	A	A
Sewage	A				A	A	B	B		A	
Shellac (Bleached)	A	A	A			A				A	
Shellac (Orange)	A	A	A			A				A	
Silicic Acid	A		A		A	A					
Silicone	A	A			A	A	C	A		A	
Silver Bromide										B	B
Silver Cyanide	A				A			A			
Silver Nitrate	A	A	B		A	B	A	A		B	B
Silver Salts	A		A		A	A				A	
Silver Sulfate	A				A	C		A			
Soap Solutions	A	A	B		A	A	A	A		B	B

	PLASTICS			ELASTOMERS			ALLOYS				
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Sodium Acetate	A	B	B		D	B	D	A		B	
Sodium Aluminate	A	A	A		A	A		A	A	A	B
Sodium Bicarbonate	A	A	A		A	B	D	A		B	B
Sodium Bisulfate	A	A	A		A	B		A		B	B
Sodium Bisulfide	A	A	A		A	A	A	A		B	
Sodium Borate	A	A	A		A	A	A	A		B	
Sodium Carbonate	A	B	B	A	A	A	A	A		A	B
Sodium Chlorate	A	D	B		A			A		B	
Sodium Chloride	A	A	A	B	A	A	A	A	A	B	A
Sodium Chromate		D			A	A				B	
Sodium Cyanide	A	A	A		A	A	A	A		A	
Sodium Hydroxide 20%	A	A	A	A	B	B	B	A		A	A
Sodium Hydroxide 50%	A	A	A	B	B	B	B	A	A	B	A
Sodium Hydroxide 80%	A		B	C	B	B		A		B	
Sodium Hypochlorite < 20%	B	D	A	D	A	B	B	B		C	
Sodium Hypochlorite 100%	B	D	B		A	B	B	B	D		
Sodium Hyposulfate									A	A	
Sodium Metaphosphate	A	A	A		A	A		A		A	
Sodium Metasilicate	A				A	A		A		A	A
Sodium Nitrate	A	A	A		A	B	D	A		B	B
Sodium Perborate	A	B	A		A	B	B	A		B	B
Sodium Peroxide	B	A	A		A	B	D	A		A	C
Sodium Phosphate Alkaline	A	A			A	A		A		B	
Sodium Phosphate Neutral	A	A			A	A		A		B	
Sodium Polyphosphate	A	A	A		A	A	D	A		B	
Sodium Silicate	A	A	A		A	A	A	A		A	C
Sodium Sulfate	A	A	A		A	A	A	A		B	B
Sodium Sulfide	A	A	A		A	A	A	A		B	B
Sodium Sulfite	A	D	B		A	A	A	A		B	D
Sodium Tetraborate		A	A		A	A				A	
Sodium Thiocyanate			A		A		A	D			
Sodium Thiosulfate	A	B	A	A	A	B		A		A	
Sorghum		A			A	A				A	
Soy Sauce		A			A	A				A	
Soybean Oil			A		A			A		A	
Stannic Chloride	A	B	A		A	A	B	A		D	B
Stannic Fluoborate					A	A				A	
Stannous Chloride	A	C	B		A	A	B	B		A	B
Starch	A	A	B		A	C		A		A	
Stearic Acid	A	A	B		A	B	B	C		A	C
Stoddard Solvent	C	A	C		A	A	D	D		A	
Styrene		A			C	D	D	D		A	
Sugar (liquids)	A	A			A	A	A	A		A	B
Sulfate Liquors	A	B	A		A	A		A		B	B
Sulfur	D	A	B		A	C		C			
Sulfur Chloride	C	A	C		A	D	C	D		D	A
Sulfur Dioxide Dry	A	B	A		A	D	B	A		A	B
Sulfur Dioxide Wet	A	C	B		A	D	B	A		A	D
Sulfur Trioxide	D	A	C		A	D	B	C		A	
Sulfuric Acid (to 10%)	A	C	A	C	A	D	D	B		B	C
Sulfuric Acid (10-75%)	A	D	A	D	A	D	D	B		D	C
Sulfuric Acid (75-95%)	C	D	B	D	A	D	D	A		D	C
Sulfuric Acid (95-100%)	C	D	B	D	A	D	D	D	A	D	A
Sulfurous Acid	A	D	B		A	B	D	B		C	C
Syrup	A				A	A				A	
Tallow	A	A	C		A	A				A	
Tannic Acid	A	C	B		A	A	B	A		A	B
Tanning Liquors	A	A	A		A	A		B		A	B
Tartaric Acid	A	B	A		A	A	A	B		C	B
Tetrachlorethane	C	C			A	D	D			A	

	PLASTICS			ELASTOMERS			ALLOYS				
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Tetrahydrofuran	C	A	C		D	D	B	D		A	B
Toluene, Tuluol	C	A	C	A	A	D	D	B		A	A
Tomato Juice	A	A	A			A		D		A	A
Trichloroethane	C	C			A	D	D	D		A	
Trichloroethylene	C	C	C		A	C	D	D	D	B	B
Trichloropropane					A	A				A	A
Tricresylphosphate	A	A	B		B	D	C	A		A	
Triethylamine	D	A			A	A		A		A	
Turpentine	B	A	C		A	A	D	D	C	A	B
Urine	A	A	A		A	A		A		A	
Varnish	A	C	C		A	B	D	D		A	A
Vegetable Juice		A			A	C				C	
Vinegar	A	C	B		A	B	A	A		A	B
Vinyl Acetate					D	D		B			
Vinyl Chloride		A			A	D		C		A	
Water Acid Mine	A	B	A		A	A	B	A		A	A
Water Deionized	A		A		A	A		A		A	B
Water Distilled	A	A	A	B	A	A		A		A	A
Water, Fresh	A	A	A		A	A	B	A	A	A	A
Water, Salt	A	A	A		A	A		A	A	A	A
Weed Killers		A			A	B				A	
Whey					A	A		A		A	
Whiskey & Wines	A	A			A	A		A		A	
Xylene	C	A	C		B	D	D	D	C	A	B
Xylol	D				A	C	D	D			
Yeast	A		A		A	A		A			
Zeolite					A	A		B			
Zinc Acetate	A				C	B		A		B	
Zinc Chloride	A	C	A		A	A	D	A	A	C	B
Zinc Hydrosulphite		A			A			A		A	
Zinc Sulfate	A	C	B		A	A	A	A		A	B
Zirlite	A		B		C	B		A			

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