# **304 Stainless Steel Compatibility Chart**

Chemical	
Acetaldehyde	Α
Acetamide	В
Acetate Solvent	А
Acetic Acid	D
Acetic Acid, 20%	В
Acetic Acid, 80%	D
Acetic Acid, Glacial	C
Acetic Anhydride	В
Acetone	A
	A
Acetyl Chloride, dry	
Acetylene	A
Acrylonitrile	A
Adipic Acid	A
Alcohol, Amyl	A
Alcohol, Benzyl	В
Alcohol, Butyl	Α
Alcohol, Diacetone	A
Alcohol, Ethyl	Α
Alcohol, Hexyl	A
Alcohol, Isobutyl	A
Alcohol, Isopropyl	В
Alcohol, Methyl	A
Alcohol, Octyl	A
Alcohol, Propyl	A
Aluminum Chloride	В
Aluminum Chloride, 20%	D
Aluminum Fluoride	D
Aluminum Hydroxide	A
Aluminum Potassium Sulfate, 10%	A
Aluminum Potassium Sulfate, 10%	D
Aluminum Sulfate	В
Amines	A
Ammonia Nitrate	
Ammonia, 10%	A
Ammonia, anhydrous	A
Ammonia, liquid	В
Ammonium Acetate	В
Ammonium Bifluoride	D
Ammonium Carbonate	В
Ammonium Chloride	С
Ammonium Hydroxide	А
Ammonium Nitrate	Α
Ammonium Oxalate	A
Ammonium Persulfate	A
Ammonium Phosphate, Dibasic	В
Ammonium Phosphate, Monobasic	В
Ammonium Phosphate, Tribasic	В
Ammonium Sulfate	В
Ammonium Sulfite	В
Amyl Acetate	A
Amyl Alcohol	
	A
Amyl Chloride	A
Aniline	A
Aniline Hydrochloride Key to General Chemical Resistance – All data is based on a	D

Chemical	
Antimony Trichloride	D
Aqua Regia (80% HCl, 20% HNO <sub>3</sub> )	D
Arochlor™ 1248	В
Arsenic Acid	Α
Asphalt	В
Barium Carbonate	В
Barium Chloride	A
Barium Cyanide	Α
Barium Hydroxide	В
Barium Nitrate	В
Barium Sulfate	В
Barium Sulfide	В
Beer	A
Beet Sugar Liquids	A
Benzaldehyde	В
Benzene	В
Benzene Sulfonic Acid	В
Benzoic Acid	В
Benzol	A
Benzonitrile	D
Benzyl Chloride	С
Bleach (sodium hypochlorite, 5.25%)	С
Borax (sodium borate)	А
Boric Acid	В
Brewery Slop	A
Bromine	D
Butadiene	A
Butane	A
Butanol (butyl alcohol)	A
Butter	С
Buttermilk	A
Butyl Acetate	В
Butyl Phthalate	В
Butylene	A
Butyric Acid	В
Calcium Bisulfide	В
Calcium Bisulfite	В
Calcium Carbonate	A
Calcium Chloride	С
Calcium Hydroxide	В
Calcium Hypochlorite	C
Calcium Nitrate	C
Calcium Oxide (lime)	A
Calcium Sulfate	В
Calgon	A
Cane Juice	A
Carbolic Acid (phenol)	В
Carbon Bisulfide	A
Carbon Dioxide, dry	A
Carbon Dioxide, wet	A
Carbon Disulfide	A
Carbon Monoxide Gas	A
Carbon Tetrachloride	В
	В
Carbon Tetrachloride, dry	D

Key to General Chemical Resistance – All data is based on ambient or room temperature conditions, about 64°F (18°C) to 73°F (23°C)

A = Excellent

B = Good - Minor Effect, slight corrosion or discoloration

C = Fair - Moderate Effect, not recommended

D = Severe Effect, not recommended for ANY use

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.

Chemical	
Carbon Tetrachloride, wet	Α
Carbonated Water	Α
Carbonic Acid	А
Catsup	Α
Chloric Acid	D
Chlorine Water	С
Chlorine, anhydrous liquid	С
Chlorine, dry	Α
Chloroacetic Acid	В
Chlorobenzene, mono	Α
Chloroform	Α
Chlorosulfonic Acid	D
Chocolate Syrup	Α
Chromic Acid, 10%	В
Chromic Acid, 30%	В
Chromic Acid, 5%	В
Chromic Acid, 50%	С
Cider	A
Citric Acid	В
Citric Oils (citrus oils, limonene)	A
Clorox® (bleach, sodium hypochlorite, 5.25%)	Α
Coffee	A
Copper Chloride	D
Copper Cyanide	В
Copper Fluoborate	D
Copper Nitrate	A
Copper Sulfate, >5%	В
Copper Sulfate, 5%	В
Cream	А
Cresols	A
Cresylic Acid	А
Cupric Acid	D
Cyanic Acid	А
Cyclohexane	A
Cyclohexanone	А
Detergents	A
Diacetone Alcohol	В
Dichloroethane	В
Diesel Fuel (20, 30, 40, 50)	А
Diethyl Ether	В
Diethylamine	А
Diethylene Glycol	A
Dimethyl Aniline	В
Dimethyl Formamide	A
Diphenyl	В
Diphenyl Oxide	В
Dyes	A
Epsom Salts (magnesium sulfate)	A
Ethane	A
Ethanol (ethyl alcohol)	A
Ethanolamine	А
Ether	A
Ethyl Acetate	В
Ethyl Chloride	A

### Chemical

Cnemical	
Ethyl Ether	В
Ethyl Sulfate	D
Ethylene Bromide	Α
Ethylene Chloride	В
Ethylene Chlorohydrin	В
Ethylene Diamine	В
Ethylene Dichloride	В
Ethylene Glycol	В
Ethylene Oxide	В
Fatty Acids	В
Ferric Chloride	D
Ferric Nitrate	В
Ferric Sulfate	В
Ferrous Chloride	D
Ferrous Sulfate	В
Fluoboric Acid	В
Fluorine Gas	С
Fluosilicic Acid	С
Formaldehyde, 100%	С
Formaldehyde, 40%	Α
Formic Acid	В
Freon 11 Trichlorofluoromethane	A
Freon 12 Dichlorodifluoromethane	В
Freon 22 Chlorodifluoromethane	A
Freon TF Trichlorotrifluoroethane	A
Fruit Juice	A
Fuel Oils (1, 2, 3, 5A, 5B, 6)	A
Furan Resin	A
Furfural	A
Gallic Acid	A
Gasoline, high aromatic	A
Gasoline, leaded	A
Gasoline, unleaded	A
Gelatin	A
Glucose	A
Glue (PVA, polyvinyl acetate)	A
	A
Glycerin Chaptic Acid	A
Glycolic Acid	
Gold Monocyanide	A
Grape Juice	
Heptane	Α
Hexane	A
Honey	Α
Hydraulic Oil, petroleum	A
Hydraulic Oil, synthetic	Α
Hydrazine	Α
Hydrobromic Acid, 100%	D
Hydrobromic Acid, 20%	D
Hydrochloric Acid, 100%	D
Hydrochloric Acid, 20%	D
Hydrochloric Acid, 37%	D
Hydrochloric Acid, dry gas	D
Hydrocyanic Acid	В
Hydrofluoric Acid, 100%	В
ditions about 64°E (48°C) to 72°E (22°C)	_

Key to General Chemical Resistance - All data is based on ambient or room temperature conditions, about 64°F (18°C) to 73°F (23°C)

A = Excellent

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.

B = Good - Minor Effect, slight corrosion or discoloration

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Hydrofluoric Acid, 20%   D     Hydrofluoric Acid, 50%   D     Hydrofluoric Acid, 150%   D     Hydrofluosilicic Acid, 100%   D     Hydrofluosilicic Acid, 20%   C     Hydrogluosilicic Acid, 20%   C     Hydrogen Gas   A     Hydrogen Peroxide, 10%   B     Hydrogen Peroxide, 30%   B     Hydrogen Peroxide, 50%   B     Hydrogen Peroxide, 50%   B     Hydrogen Sulfide, aqueous   C     Hydrogen Sulfide, aqueous   C     Hydrogen Sulfide, dry   C     Hydroquinone   B     Ink   C     Iodine   D     Iodoform   A     Isopropyl Acetate   C     Isopropyl Acetate   C     Isopropyl Acetate   C     Isopropyl Acetate   C     Isopropyl Ether   A     Jet Fuel (JP3, JP4, JP5)   A     Kerosene   A     Ketones   A     Lacquer Thinners   A     Lacquer Thinners   A     Lacquers   A     Lactic Acid   B     Lard (animal fat)   A     Latex   A     Lead Acetate   B     Lead Nitrate   B     Lead Nitrate   B     Lead Nitrate   B     Lead Nitrate   B     Lead Caicium oxide   A     Limine (calcium oxide)   B     Lime (calcium hydroxide   B     Lye, NOH (potassium hydroxide   B     Lye, NOH (potassium hydroxide   B     Magnesium Chloride   A     Magnesium Sulfate (Epsom salts)   A     Maleic Acid   B     Mash (brewing)   A     Marcuric Choride, dilute   D     Mercuric Choride, dilute   D     Mercuric Choride, dilute   D     Mercuric Cyanide   C		
Hydrofluosilicic Acid, 100%   D   Hydrofluosilicic Acid, 200%   C   Hydrogen Gas   A   Hydrogen Peroxide, 100%   B   Hydrogen Peroxide, 30%   B   Hydrogen Peroxide, 30%   B   Hydrogen Sulfide, aqueous   C   Hydroquinone   B   Ink   C   Hydroquinone   B   Ink   C   Iodine   D   Iodoform   A   Isoorctane   C   Isopropyl Acetate   C   Isopropyl Acetate   C   Isopropyl Acetate   C   Isopropyl Ether   A   A   A   A   A   A   A   A   A   A	Hydrofluoric Acid, 20%	D
Hydrofluosilicic Acid, 100%   C   Hydrogen Gas	Hydrofluoric Acid, 50%	D
Hydrofluosilicic Acid, 20%	Hydrofluoric Acid, 75%	D
Hydrogen Gas	Hydrofluosilicic Acid, 100%	D
Hydrogen Peroxide, 10%   B     Hydrogen Peroxide, 30%   B     Hydrogen Peroxide, 30%   B     Hydrogen Peroxide, 50%   B     Hydrogen Sulfide, aqueous   C     Hydrogen Sulfide, dry   C     Hydroquinone   B     Ink   C     Iodine   D     Iodoform   A     Isooctane   A     Isoorpyl Acetate   C     Isopropyl Acetate   C     Isopropyl Ether   A     Jet Fuel (JP3, JP4, JP5)   A     Kerosene   A     Lacquer Thinners   A     Lacquers   A     Lacquers   A     Lactic Acid   B     Lard (animal fat)   A     Latex   A     Lead Acetate   B     Lead Nitrate   B     Lead Sulfamate   C     Lime (calcium oxide)   A     Lithium Hydroxide   B     Lithium Chloride   A     Lithium Chloride   A     Lithium Chloride   B     Lye, NaOH (sodium hydroxide)   B     Magnesium Bisulfate   B     Magnesium Carbonate   B     Magnesium Sulfate (Epsom salts)   A     Maleic Acid   A     Maleic Acid   A     Maleic Acid   A     Magnesium Sulfate (Epsom salts)   A     Maleic Acid   B     Magnesium Sulfate (Epsom salts)   A     Maleic Acid   A     M	Hydrofluosilicic Acid, 20%	С
Hydrogen Peroxide, 100% Hydrogen Peroxide, 30% B Hydrogen Peroxide, 50% B Hydrogen Sulfide, aqueous Hydrogen Sulfide, dry C Hydroquinone B Ink C Iodine D Iodoform A Isooctane A Isopropyl Acetate C Isopropyl Ether A Jet Fuel (JP3, JP4, JP5) A Kerosene A Lacquer Thinners A Lacquers A Lactic Acid B Lard (animal fat) Latex B Lead Nitrate B Lead Nitrate B Lead Sulfamate C Lemon Oil (citrus oils, limonene) Lithium Chloride Lubricants Lye, Ca(OH) <sub>2</sub> (calclum hydroxide) B Lye, NOH (sodium hydroxide) Magnesium Carbonate Magnesium Carloride Magnesium Sulfate (Epsom salts) Maleic Acid Maleic Acid Maleic Acid Maleic Acid Males B Magnesium Sulfate Magnesium Sulfate (Epsom salts) Males C Mercuric Chloride Males C Massen Sale Magnesium Sulfate Magnesium Sulfate (Epsom salts) Maleic Acid Mal	Hydrogen Gas	A
Hydrogen Peroxide, 30%   B     Hydrogen Peroxide, 50%   B     Hydrogen Sulfide, aqueous   C     Hydrogen Sulfide, aqueous   C     Hydrogen Sulfide, dry   C     Hydrogen Sulfide, dry   C     Hydroquinone   B     Ink   C     Iodine   D     Iodoform   A     Isoocatane   A     Isopropyl Acetate   C     Isopropyl Ether   A     Jet Fuel (JP3, JP4, JP5)   A     Kerosene   A     Ketones   A     Lacquer Thinners   A     Lacquer Thinners   A     Lacquers   A     Lated Acetate   B     Lead Nitrate   B     Lead Nitrate   B     Lead Sulfamate   C     Lemon Oil (citrus oils, limonene)   A     Lime (calcium oxide)   A     Limine (calcium oxide)   B     Lithium Chloride   A     Lithium Hydroxide   B     Lupe, KoH (potassium hydroxide)   B     Lye, KOH (potassium hydroxide)   B     Magnesium Carbonate   B     Magnesium Carbonate   B     Magnesium Sulfate (Epsom salts)   A     Maleic Acid   A     Maleic Acid   A     Magnesium Sulfate (Epsom salts)   A     Maleic Acid	Hydrogen Peroxide, 10%	В
Hydrogen Peroxide, 50%   B     Hydrogen Sulfide, aqueous   C     Hydrogen Sulfide, dry   C     Hydroquinone   B     Ink   C     Iodine   D     Iodoform   A     Isooctane   A     Isopropyl Acetate   C     Isopropyl Acetate   C     Isopropyl Ether   A     Jet Fuel (JP3, JP4, JP5)   A     Kerosene   A     Ketones   A     Lacquer Thinners   A     Lacquer Thinners   A     Lactic Acid   B     Lard (animal fat)   A     Latex   A     Lead Nitrate   B     Lead Sulfamate   C     Lemon Oil (citrus oils, limonene)   A     Limoleic Acid   B     Lithium Chloride   A     Lithium Chloride   B     Lye, KOH (potassium hydroxide)   B     Lye, KOH (potassium hydroxide)   B     Magnesium Carbonate   B     Magnesium Carbonate   B     Magnesium Sulfate (Epsom salts)   A     Maleic Acid   A     Maleic Acid   A     Maleic Acid   A     Magnesium Sulfate (Epsom salts)   A     Maleic Acid   A     Maleyonnaise   C     Mercuric Chloride, dilute   D     Mercuric Chloride, dilute   D	Hydrogen Peroxide, 100%	В
Hydrogen Sulfide, aqueous	Hydrogen Peroxide, 30%	В
Hydrogen Sulfide, dry	Hydrogen Peroxide, 50%	В
Hydroquinone B Ink C Iodine D Iodoform A Isooctane A Isooctane C Isopropyl Acetate C Isopropyl Ether A Jet Fuel (JP3, JP4, JP5) A Kerosene A Ketones A Lacquer Thinners A Lacquer Thinners A Lactic Acid B Lard (animal fat) A Latex A Lead Acetate B Lead Nitrate B Lead Nitrate C Lemon Oil (citrus oils, limonene) A Lime (calcium oxide) A Lithium Chloride A Lithium Chloride B Lubricants A Lye, Ca(OH) <sub>2</sub> (calcium hydroxide) B Lye, KOH (potassium hydroxide) B Magnesium Carbonate B Magnesium Chloride D Magnesium Sulfate (Epsom salts) A Maleic Acid B Magnesium Sulfate (Epsom salts) A Maleic Acid B Magnesium Sulfate (Epsom salts) A Maleic Acid B Magnesium Sulfate (Epsom salts) A Maleic Acid A Mangnesse Sulfate B Mash (brewing) A Mayonnaise C Mercuric Chloride, dilute	Hydrogen Sulfide, aqueous	С
Ink         C           Iodine         D           Iodoform         A           Isocotane         A           Isopropyl Acetate         C           Isopropyl Ether         A           Jet Fuel (JP3, JP4, JP5)         A           Kerosene         A           Ketones         A           Lacquer Thinners         A           Lacquers         A           Lactic Acid         B           Lard (animal fat)         A           Latex         A           Lead Nitrate         B           Lead Nitrate         B           Lead Sulfamate         C           Lemon Oil (citrus oils, limonene)         A           Lime (calcium oxide)         A           Lime (calcium oxide)         A           Lithium Chloride         A           Lithium Hydroxide         B           Luye, Ca(OH)2 (calcium hydroxide)         B           Lye, Ca(OH)2 (calcium hydroxide)         B           Lye, NaOH (sodium hydroxide)         B           Magnesium Bisulfate         A           Magnesium Carbonate         B           Magnesium Nitrate         B           Magnesium	Hydrogen Sulfide, dry	С
Iodine	Hydroquinone	В
Idodform         A           Isopropyl Acetate         C           Isopropyl Ether         A           Jet Fuel (JP3, JP4, JP5)         A           Kerosene         A           Ketones         A           Lacquer Thinners         A           Lacquers         A           Lactic Acid         B           Lard (animal fat)         A           Latex         A           Lead Acetate         B           Lead Nitrate         B           Lead Sulfamate         C           Lemon Oil (citrus oils, limonene)         A           Lime (calcium oxide)         A           Lime (calcium oxide)         A           Limium Chloride         B           Lithium Hydroxide         B           Lubricants         A           Lye, Ca(OH)2 (calcium hydroxide)         B           Lye, KOH (potassium hydroxide)         B           Lye, NOH (sodium hydroxide)         B           Lye, NaOH (sodium hydroxide)         B           Magnesium Carbonate         B           Magnesium Nitrate         B           Magnesium Nitrate         B           Magnesium Sulfate (Epsom salts)         A </td <td>Ink</td> <td>С</td>	Ink	С
Isooctane Isopropyl Acetate C Isopropyl Ether A Jet Fuel (JP3, JP4, JP5) A Kerosene A Ketones A Lacquer Thinners A Lacquer Thinners A Lacquers A Lactic Acid B Lard (animal fat) A Lead Acetate B Lead Nitrate B Lead Sulfamate C Lemon Oil (citrus oils, limonene) A Linne (calcium oxide) A Linoleic Acid B Lithium Chloride A Lithium Hydroxide B Lye, KOH (potassium hydroxide) B Lye, NAOH (sodium hydroxide) B Magnesium Bisulfate A Magnesium Chloride B Magnesium Chloride B Magnesium Chloride B Magnesium Disulfate B Magnesium Chloride B Magnesium Bisulfate A Magnesium Chloride B Magnesium Chloride B Magnesium Chloride B Magnesium Bisulfate A Magnesium Bisulfate B Magnesium Chloride B Magnesium Sulfate B Magnesium Sulfate (Epsom salts) A Maleic Acid A Maleic Acid A Maleic Acid A Maloses Sulfate B Mash (brewing) A Mayonnaise C Mercuric Chloride, dilute	lodine	D
Isopropyl Ether	lodoform	Α
Isopropyl Ether	Isooctane	
Isopropyl Ether		С
Jet Fuel (JP3, JP4, JP5)         A           Kerosene         A           Ketones         A           Lacquer Thinners         A           Lactic Acid         B           Lard (animal fat)         A           Latex         A           Lead Acetate         B           Lead Nifrate         B           Lead Sulfamate         C           Lemon Oil (citrus oils, limonene)         A           Lime (calcium oxide)         A           Lime (calcium oxide)         A           Linhium Chloride         A           Lithium Hydroxide         B           Lubricants         A           Lye, Ca(OH) <sub>2</sub> (calcium hydroxide)         B           Lye, Ca(OH) <sub>2</sub> (calcium hydroxide)         B           Lye, KOH (potassium hydroxide)         B           Lye, NOH (sodium hydroxide)         B           Magnesium Bisulfate         A           Magnesium Carbonate         B           Magnesium Chloride         D           Magnesium Nitrate         B           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Acid         A           Mash (brewing) <td><u> </u></td> <td></td>	<u> </u>	
Kerosene         A           Ketones         A           Lacquer Thinners         A           Lacquers         A           Lactic Acid         B           Lard (animal fat)         A           Latex         A           Lead Acetate         B           Lead Nitrate         B           Lead Sulfamate         C           Lemon Oil (citrus oils, limonene)         A           Lime (calcium oxide)         A           Linoleic Acid         B           Lithium Chloride         A           Lithium Hydroxide         B           Lubricants         A           Lye, Ca(OH) <sub>2</sub> (calcium hydroxide)         B           Lye, KOH (potassium hydroxide)         B           Lye, NAOH (sodium hydroxide)         B           Magnesium Bisulfate         A           Magnesium Carbonate         B           Magnesium Whydroxide         B           Magnesium Nitrate         B           Magnesium Oxide         A           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Acid         A           Mash (brewing)         A		
Ketones       A         Lacquer Thinners       A         Lacquers       A         Lactic Acid       B         Lard (animal fat)       A         Latex       A         Lead Acetate       B         Lead Nitrate       B         Lead Sulfamate       C         Lemon Oil (citrus oils, limonene)       A         Lime (calcium oxide)       A         Lime (calcium oxide)       B         Lithium Chloride       A         Lithium Hydroxide       B         Lubricants       A         Lye, Ca(OH) <sub>2</sub> (calcium hydroxide)       B         Lye, KOH (potassium hydroxide)       B         Lye, NAOH (sodium hydroxide)       B         Magnesium Bisulfate       A         Magnesium Carbonate       B         Magnesium Chloride       D         Magnesium Nitrate       B         Magnesium Sulfate (Epsom salts)       A         Maleic Acid       A         Maleic Acid       A         Malic Acid       A         Mash (brewing)       A         Mayonnaise       C         Mercuric Chloride, dilute       D		Α
Lacquers A Lacquers A Lactic Acid B Lard (animal fat) A Latex A Lead Acetate B Lead Nitrate B Lead Sulfamate C Lemon Oil (citrus oils, limonene) A Lime (calcium oxide) A Linoleic Acid B Lithium Chloride A Lithium Hydroxide B Lubricants A Lye, Ca(OH) <sub>2</sub> (calcium hydroxide) B Lye, KOH (potassium hydroxide) B Lye, NaOH (sodium hydroxide) B Magnesium Bisulfate A Magnesium Carbonate B Magnesium Nitrate B Magnesium Oxide A Magnesium Oxide A Magnesium Sulfate (Epsom salts) A Maleic Acid A Maleic Acid A Maloracie C Magnesie C Magnesie C Magnesie C Magnesie C Magnesie C Magnese C Magnesie C Magnese C		
Lacquers         A           Lactic Acid         B           Lard (animal fat)         A           Latex         A           Lead Acetate         B           Lead Nitrate         B           Lead Sulfamate         C           Lemon Oil (citrus oils, limonene)         A           Lime (calcium oxide)         A           Lime (calcium oxide)         B           Lithium Chloride         A           Lithium Hydroxide         B           Lubricants         A           Lye, Ca(OH) <sub>2</sub> (calcium hydroxide)         B           Lye, KOH (potassium hydroxide)         B           Lye, NAOH (sodium hydroxide)         B           Magnesium Bisulfate         A           Magnesium Carbonate         B           Magnesium Chloride         D           Magnesium Hydroxide         B           Magnesium Nitrate         B           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Acid         A           Malic Acid         A           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D<		
Lactic Acid         B           Lard (animal fat)         A           Latex         A           Lead Acetate         B           Lead Nitrate         B           Lead Sulfamate         C           Lemon Oil (citrus oils, limonene)         A           Lime (calcium oxide)         A           Linoleic Acid         B           Lithium Chloride         A           Lithium Hydroxide         B           Lubricants         A           Lye, Ca(OH) <sub>2</sub> (calcium hydroxide)         B           Lye, KOH (potassium hydroxide)         B           Lye, NAOH (sodium hydroxide)         B           Magnesium Bisulfate         A           Magnesium Carbonate         B           Magnesium Chloride         D           Magnesium Hydroxide         B           Magnesium Nitrate         B           Magnesium Sulfate (Epsom salts)         A           Malic Acid         A           Maleic Acid         A           Malic Acid         A           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D		
Lard (animal fat)         A           Latex         A           Lead Acetate         B           Lead Nitrate         B           Lead Sulfamate         C           Lemon Oil (citrus oils, limonene)         A           Lime (calcium oxide)         A           Lime (calcium oxide)         B           Lithium Chloride         A           Lithium Hydroxide         B           Lubricants         A           Lye, Ca(OH) <sub>2</sub> (calcium hydroxide)         B           Lye, KOH (potassium hydroxide)         B           Lye, NAOH (sodium hydroxide)         B           Magnesium Bisulfate         A           Magnesium Carbonate         B           Magnesium Chloride         D           Magnesium Hydroxide         B           Magnesium Nitrate         B           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Acid         A           Malic Acid         A           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D	· · · · · · · · · · · · · · · · · · ·	
Latex         A           Lead Acetate         B           Lead Nitrate         B           Lead Sulfamate         C           Lemon Oil (citrus oils, limonene)         A           Lime (calcium oxide)         A           Linoleic Acid         B           Lithium Chloride         A           Lithium Hydroxide         B           Lubricants         A           Lye, Ca(OH) <sub>2</sub> (calcium hydroxide)         B           Lye, KOH (potassium hydroxide)         B           Lye, NaOH (sodium hydroxide)         B           Magnesium Bisulfate         A           Magnesium Carbonate         B           Magnesium Chloride         D           Magnesium Hydroxide         B           Magnesium Nitrate         B           Magnesium Oxide         A           Maleic Acid         A           Maleic Acid         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D		
Lead Acetate       B         Lead Nitrate       B         Lead Sulfamate       C         Lemon Oil (citrus oils, limonene)       A         Lime (calcium oxide)       A         Linoleic Acid       B         Lithium Chloride       A         Lithium Hydroxide       B         Lithium Hydroxide       B         Lubricants       A         Lye, Ca(OH) <sub>2</sub> (calcium hydroxide)       B         Lye, KOH (potassium hydroxide)       B         Lye, NaOH (sodium hydroxide)       B         Magnesium Bisulfate       A         Magnesium Carbonate       B         Magnesium Chloride       D         Magnesium Hydroxide       B         Magnesium Nitrate       B         Magnesium Oxide       A         Magnesium Sulfate (Epsom salts)       A         Maleic Acid       A         Maleic Acid       A         Maleic Acid       A         Maleic Acid       A         Mash (brewing)       A         Mayonnaise       C         Mercuric Chloride, dilute       D		
Lead Nitrate       B         Lead Sulfamate       C         Lemon Oil (citrus oils, limonene)       A         Lime (calcium oxide)       A         Linoleic Acid       B         Lithium Chloride       A         Lithium Hydroxide       B         Lithium Hydroxide       B         Lubricants       A         Lye, Ca(OH)2 (calcium hydroxide)       B         Lye, KOH (potassium hydroxide)       B         Lye, NaOH (sodium hydroxide)       B         Magnesium Bisulfate       A         Magnesium Carbonate       B         Magnesium Chloride       D         Magnesium Hydroxide       B         Magnesium Nitrate       B         Magnesium Oxide       A         Magnesium Sulfate (Epsom salts)       A         Maleic Acid       A         Maleic Acid       A         Maleic Acid       A         Maleic Acid       A         Mash (brewing)       A         Mayonnaise       C         Mercuric Chloride, dilute       D		
Lead Sulfamate         C           Lemon Oil (citrus oils, limonene)         A           Lime (calcium oxide)         A           Linoleic Acid         B           Lithium Chloride         A           Lithium Hydroxide         B           Lubricants         A           Lye, Ca(OH) <sub>2</sub> (calcium hydroxide)         B           Lye, KOH (potassium hydroxide)         B           Lye, NaOH (sodium hydroxide)         B           Magnesium Bisulfate         A           Magnesium Carbonate         B           Magnesium Chloride         D           Magnesium Hydroxide         B           Magnesium Nitrate         B           Magnesium Oxide         A           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Acid         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D		
Lemon Oil (citrus oils, limonene)  Lime (calcium oxide)  Lime (calcium oxide)  Linoleic Acid  Lithium Chloride  Lithium Hydroxide  Lithium Hydroxide  B  Lubricants  Lye, Ca(OH) <sub>2</sub> (calcium hydroxide)  B  Lye, KOH (potassium hydroxide)  B  Lye, NaOH (sodium hydroxide)  B  Magnesium Bisulfate  A  Magnesium Carbonate  B  Magnesium Chloride  D  Magnesium Hydroxide  B  Magnesium Nitrate  B  Magnesium Oxide  A  Magnesium Sulfate (Epsom salts)  A  Maleic Acid  A  Maleic Acid  A  Malic Acid  A  Manganese Sulfate  B  Mash (brewing)  Mayonnaise  C  Mercuric Chloride, dilute		
Lime (calcium oxide)         A           Linoleic Acid         B           Lithium Chloride         A           Lithium Hydroxide         B           Lubricants         A           Lye, Ca(OH)2 (calcium hydroxide)         B           Lye, KOH (potassium hydroxide)         B           Lye, NaOH (sodium hydroxide)         B           Magnesium Bisulfate         A           Magnesium Carbonate         B           Magnesium Chloride         D           Magnesium Hydroxide         B           Magnesium Nitrate         B           Magnesium Oxide         A           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Anhydride         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D		
Linoleic Acid B Lithium Chloride A Lithium Hydroxide B Lubricants A Lye, Ca(OH) <sub>2</sub> (calcium hydroxide) B Lye, KOH (potassium hydroxide) B Lye, NaOH (sodium hydroxide) B Magnesium Bisulfate A Magnesium Carbonate B Magnesium Chloride D Magnesium Nitrate B Magnesium Nitrate B Magnesium Sulfate (Epsom salts) A Maleic Acid A Maleic Acid A Malic Acid A Maloranese Sulfate B Magnese Sulfate B Magnese Sulfate B Magnese Sulfate B Magnese C Mercuric Chloride, dilute D		
Lithium Chloride A Lithium Hydroxide B Lubricants A Lye, Ca(OH) <sub>2</sub> (calcium hydroxide) B Lye, KOH (potassium hydroxide) B Lye, NaOH (sodium hydroxide) B Magnesium Bisulfate A Magnesium Carbonate B Magnesium Chloride D Magnesium Hydroxide B Magnesium Nitrate B Magnesium Oxide A Magnesium Sulfate (Epsom salts) A Maleic Acid A Maleic Acid A Malic Acid A Maloranese Sulfate B Mash (brewing) A Mayonnaise C Mercuric Chloride, dilute	·	
Lithium Hydroxide B Lubricants A Lye, Ca(OH) <sub>2</sub> (calcium hydroxide) B Lye, KOH (potassium hydroxide) B Lye, NaOH (sodium hydroxide) B Magnesium Bisulfate A Magnesium Carbonate B Magnesium Chloride D Magnesium Hydroxide B Magnesium Nitrate B Magnesium Oxide A Magnesium Sulfate (Epsom salts) A Maleic Acid A Maleic Acid A Malic Acid A Manganese Sulfate B Magnese Sulfate B Magnese Sulfate B Magnese C Mercuric Chloride, dilute D		
Lubricants A  Lye, Ca(OH) <sub>2</sub> (calcium hydroxide) B  Lye, KOH (potassium hydroxide) B  Lye, NaOH (sodium hydroxide) B  Magnesium Bisulfate A  Magnesium Carbonate B  Magnesium Chloride D  Magnesium Hydroxide B  Magnesium Nitrate B  Magnesium Oxide A  Magnesium Sulfate (Epsom salts) A  Maleic Acid A  Maleic Anhydride A  Malic Acid A  Malox A  Malox B  Magnese Sulfate B  Magnese Sulfate B  Mayonnaise C  Mercuric Chloride, dilute		
Lye, Ca(OH) <sub>2</sub> (calcium hydroxide)  Lye, KOH (potassium hydroxide)  B Lye, NaOH (sodium hydroxide)  B Magnesium Bisulfate  A Magnesium Carbonate  B Magnesium Chloride  D Magnesium Hydroxide  B Magnesium Nitrate  B Magnesium Oxide  A Magnesium Sulfate (Epsom salts)  A Maleic Acid  A Maleic Acid  A Malic Acid  A Malor Acid  Manganese Sulfate  B Mash (brewing)  Mayonnaise  C Mercuric Chloride, dilute	•	
Lye, KOH (potassium hydroxide)       B         Lye, NaOH (sodium hydroxide)       B         Magnesium Bisulfate       A         Magnesium Carbonate       B         Magnesium Chloride       D         Magnesium Hydroxide       B         Magnesium Nitrate       B         Magnesium Oxide       A         Magnesium Sulfate (Epsom salts)       A         Maleic Acid       A         Maleic Anhydride       A         Malic Acid       A         Manganese Sulfate       B         Mash (brewing)       A         Mayonnaise       C         Mercuric Chloride, dilute       D		
Lye, NaOH (sodium hydroxide)         B           Magnesium Bisulfate         A           Magnesium Carbonate         B           Magnesium Chloride         D           Magnesium Hydroxide         B           Magnesium Nitrate         B           Magnesium Oxide         A           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Anhydride         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D	2	
Magnesium Bisulfate         A           Magnesium Carbonate         B           Magnesium Chloride         D           Magnesium Hydroxide         B           Magnesium Nitrate         B           Magnesium Oxide         A           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Anhydride         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D		
Magnesium Carbonate         B           Magnesium Chloride         D           Magnesium Hydroxide         B           Magnesium Nitrate         B           Magnesium Oxide         A           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Anhydride         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D		
Magnesium Chloride         D           Magnesium Hydroxide         B           Magnesium Nitrate         B           Magnesium Oxide         A           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Anhydride         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D	<u> </u>	
Magnesium Hydroxide         B           Magnesium Nitrate         B           Magnesium Oxide         A           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Anhydride         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D	-	
Magnesium Nitrate         B           Magnesium Oxide         A           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Anhydride         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D	·	
Magnesium Oxide         A           Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Malic Achydride         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D		
Magnesium Sulfate (Epsom salts)         A           Maleic Acid         A           Maleic Anhydride         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D		
Maleic Acid         A           Maleic Anhydride         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D		
Maleic Anhydride         A           Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D		
Malic Acid         A           Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D		
Manganese Sulfate         B           Mash (brewing)         A           Mayonnaise         C           Mercuric Chloride, dilute         D		
Mash (brewing)     A       Mayonnaise     C       Mercuric Chloride, dilute     D		
Mayonnaise C Mercuric Chloride, dilute D		
Mercuric Chloride, dilute D		
,		
Mercuric Cyanide C	Mercuric Chloride, dilute	D
	Mercuric Cyanide	С

### Chemical

Chemical	
Mercurous Nitrate	Α
Mercury	Α
Methane Gas (natural gas)	Α
Methanol (methyl alcohol, wood alcohol)	Α
Methyl Acetate	Α
Methyl Acetone	Α
Methyl Acrylate	Α
Methyl Alcohol, 10%	Α
Methyl Bromide	Α
Methyl Butyl Ketone (MBK)	Α
Methyl Cellosolve	В
Methyl Chloride	Α
Methyl Ethyl Ketone (MEK)	Α
Methyl Isobutyl Ketone	В
Methyl Isopropyl Ketone	Α
Methyl Methacrylate	В
Methylamine	Α
Methylene Chloride	В
Milk	Α
Mineral Spirits	Α
Molasses, crude	Α
Molasses, edible	Α
Monochloroacetic Acid	Α
Monoethanolamine	Α
Motor Oil	Α
Mustard	Α
Naphtha	Α
Naphthalene	Α
Natural Gas (methane gas)	Α
Nickel Chloride	D
Nickel Nitrate	В
Nickel Sulfate	В
Nitrating Acid, <1% Acid	С
Nitrating Acid, <15% H <sub>2</sub> SO <sub>4</sub>	С
Nitrating Acid, <15% HNO	С
Nitrating Acid, >15% H <sub>2</sub> SO <sub>4</sub>	С
Nitric Acid, 20%	Α
Nitric Acid, 50%	Α
Nitric Acid, 5-10%	А
Nitric Acid, concentrated	Α
Nitrobenzene	В
Nitromethane	Α
Nitrous Acid	В
Nitrous Oxide Gas	В
Oil, Aniline	Α
Oil, Castor	A
Oil, Cinnamon	А
Oil, Citric (citrus oils, limonene)	A
Oil, Clove	А
Oil, Coconut	A
Oil, Cod Liver	A
Oil, Corn	A
Oil, Cottonseed	A
Oil, Creosote	В

Key to General Chemical Resistance – All data is based on ambient or room temperature conditions, about 64°F (18°C) to 73°F (23°C)

A = Excellent

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Chemical	
Oil, Ginger	D
Oil, Hydraulic Oil (petroleum)	Α
Oil, Hydraulic Oil (synthetic)	Α
Oil, Lemon (citrus oils, limonene)	Α
Oil, Linseed	Α
Oil, Mineral	Α
Oil, Motor	Α
Oil, Olive	Α
Oil, Orange (citrus oils, limonene)	Α
Oil, Palm	Α
Oil, Peanut	Α
Oil, Peppermint	А
Oil, Rapeseed	Α
Oil, Rosin	Α
Oil, Sesame Seed	Α
Oil, Silicone	Α
Oil, Soybean	Α
Oil, Tanning	Α
Oil, Transformer	Α
Oil, Turbine	A
Oils and Fats	Α
Oils, Animal	Α
Oils, Diesel Fuel (20, 30, 40, 50)	Α
Oils, Fuel (1, 2, 3, 5A, 5B, 6)	Α
Oils, Hydraulic (petroleum)	Α
Oils, Hydraulic (synthetic)	Α
Oils, Lubricating	Α
Oils, Mineral	Α
Oils, Vegetable	Α
Oils: Pine	Α
Oleic Acid	Α
Oleum, 100%	А
Oleum, 25%	В
Oxalic Acid, cold	В
Ozone Gas	В
Palmitic Acid	В
Paraffin	Α
Pentane	С
Perchloric Acid	С
Perchloroethylene	В
Petrolatum	Α
Petroleum	A
Phenol (carbolic acid)	В
Phenol, 10% (carbolic acid)	В
Phosphoric Acid, <40%	D
Phosphoric Acid, >40%	D
Phosphoric Acid, crude	D
Phosphorus	A
Phosphorus Trichloride	Α
Photographic Developer	A
Photographic Solutions	D
Phthalic Acid	В
Dietie elle Austronisis	
Phthalic Anhydride	А
Picric Acid	A B

# Chemical

Chemical	
Plating Solutions, Antimony Plating 130°F (54°C)	Α
Plating Solutions, Arsenic Plating 110°F (43°C)	Α
Potash (potassium carbonate)	В
Potassium Bicarbonate	В
Potassium Bromide	В
Potassium Chlorate	В
Potassium Chloride	В
Potassium Chromate	В
Potassium Cyanide Solutions	В
Potassium Dichromate	В
Potassium Ferricyanide	В
Potassium Ferrocyanide	В
Potassium Hydroxide (Lye, caustic potash)	В
Potassium Hypochlorite	С
Potassium Iodide	Α
Potassium Nitrate	В
Potassium Oxalate	В
Potassium Permanganate	В
Potassium Sulfate	В
Potassium Sulfide	В
Propane, liquefied	А
Propylene	В
Propylene Glycol	В
Pyridine	А
Pyrogallic Acid	В
Rosins	Α
Rum	Α
Rust Inhibitors	А
Salad Dressings	А
Salicylic Acid	В
Salt Brine (NaCl, saturated)	В
Sea Water	С
Shellac, bleached	Α
Shellac, orange	Α
Silicone	Α
Silver Bromide	D
Silver Nitrate	В
Soap Solutions	A
Soda Ash (sodium carbonate)	Α
Sodium Acetate	В
Sodium Aluminate	A
Sodium Bicarbonate	A
Sodium Bisulfate	D
Sodium Bisulfite	В
Sodium Borate (Borax)	В
Sodium Bromide	C
Sodium Carbonate	A
Sodium Chlorate	A
Sodium Chloride	В
Sodium Chromate	В
Sodium Cyanide	A
	B
Sodium Ferrocyanide Sodium Fluoride	D D
Sodium Hydroxide, 20%	В

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Sodium Hydroxide, 50%	В
Sodium Hydroxide, 80%	C
Sodium Hypochlorite, <20%	C
Sodium Hypochlorite, 100%	D
Sodium Hyposulfate	A
Sodium Metaphosphate	A
Sodium Metasilicate	A
Sodium Nitrate	В
Sodium Perborate	В
Sodium Peroxide	A
Sodium Polyphosphate	В
	_
Sodium Silicate	A
Sodium Sulfate	В
Sodium Sulfide	В
Sodium Sulfite	В
Sodium Tetraborate	A
Sodium Thiosulfate, hypo	Α
Sorghum	Α
Soy Sauce	Α
Stannic Chloride	D
Stannous Chloride	С
Starch	Α
Stearic Acid	В
Stoddard Solvent	Α
Styrene	Α
Sugar Liquids	Α
Sulfate Liquors	В
Sulfur Chloride	D
Sulfur Dioxide	D
Sulfur Dioxide, dry	D
Sulfur Trioxide	Α
Sulfur Trioxide, dry	D
Sulfuric Acid, <10%	D
Sulfuric Acid, 10-75%	D
Sulfuric Acid, 75-100%	С
Sulfuric Acid, cold concentrated	С
Sulfuric Acid, hot concentrated	D
Sulfurous Acid	В
Tallow	A
Tannic Acid	В
Tanning Liquors	A
Tartaric Acid	C
Tetrachloroethane	В
Tetrahydrofuran	A
Toluene (toluol)	A
Tomato Juice	A
-	
Trichloroacetic Acid	D
Trichloroethane	В
Trichloroethylene	В
Trichloropropane	Α
Tricresylphosphate	В
Triethylamine	A
Trisodium Phosphate	В
Turpentine	Α

Chemical	
Urea	В
Uric Acid	В
Urine	Α
Varnish	Α
Vegetable Juices	Α
Vinegar	Α
Vinyl Acetate	В
Vinyl Chloride	В
Water, acid mine	В
Water, deionized (demineralized water)	Α
Water, distilled	Α
Water, fresh	Α
Water, salt	В
Weed Killers	Α
Whey	Α
Whiskey and Wines	Α
White Liquor, pulp mill	A
White Water, paper mill	A
Xylene	В
Zinc Chloride	В
Zinc Hydrosulfite	A
Zinc Sulfate	В
Zinc Sunate	

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