ver 26-Oct-2018

Chemical		Chemical	
Acetaldehyde	Α	Alcohol, Furfuryl	Α
Acetaldehyde, 40% (aqueous)	Α	Alcohol, Glycyl (glycerol)	Α
Acetamide	Α	Alcohol, Hexyl	Α
Acetate Solvents, crude	Α	Alcohol, Isobutyl	Α
Acetate Solvents, pure	Α	Alcohol, Isopropyl	В
Acetic Acid, 5%	Α	Alcohol, Methyl (methanol, wood alcohol)	Α
Acetic Acid, 10%	Α	Alcohol, Methyl Isobutyl	Α
Acetic Acid, 20%	Α	Alcohol, Octyl	Α
Acetic Acid, 30%	Α	Alcohol, Propyl	Α
Acetic Acid, 50%	Α	Alkaline Pulp (green liquor)	Α
Acetic Acid, 60%	Α	Allyl Alcohol	Α
Acetic Acid, 80%	В	Allyl Chloride	Α
Acetic Acid, glacial	Α	Aluminum Acetate	Α
Acetic Anhydride	Α	Aluminum Chloride	В
Acetic Ether (ethyl acetate)	Α	Aluminum Chloride 20%	С
Acetone (dimethyl ketone)	Α	Aluminum Fluoride	D
Acetonitrile (methyl cyanide)	Α	Aluminum Hydroxide	С
Acetophenone	Α	Aluminum Nitrate	Α
Acetyl Chloride, dry	Α	Aluminum Sulfate	В
Acetylene	Α	Alums	Α
Acetylene Tetrachloride	Α	Amines, 15%	Α
Acrylic Acid	Α	Ammonia Nitrate	Α
Acrylonitrile	Α	Ammonia, 10%	Α
Adipic Acid, aqueous	Α	Ammonia, 25%	Α
Alcohol, Allyl	Α	Ammonia, 99%	Α
Alcohol, Amyl (methyl butanol)	Α	Ammonia, anhydrous	Α
Alcohol, Benzyl	В	Ammonia, gas	Α
Alcohol, Butyl	Α	Ammonia, liquid	Α
Alcohol, Diacetone	В	Ammonium Acetate	Α
Alcohol, Ethyl (ethanol)	Α	Ammonium Bifluoride	В

Key to General Chemical Resistance [all data based on 72 ° (22 °C) unless noted]

A = Excellent - No Effect

C = Fair - Moderate Effect, not recommended

B= Good - Minor Effect, slight corrosion or discoloration

ver 26-Oct-2018

Chemical		Chemica
Ammonium Carbonate	В	Aqua Re
Ammonium Caseinate	Α	Arochlor
Ammonium Chloride	В	Aromatic
Ammonium Fluoride, 10%	D	Arsenic A
Ammonium Fluoride, 20%	D	Asphalt
Ammonium Fluoride, 25%	D	Aviation
Ammonium Hydroxide	Α	Aviation
Ammonium Metaphosphate	Α	Baking S
Ammonium Nitrate	Α	Barium A
Ammonium Oxalate	Α	Barium C
Ammonium Persulfate	В	Barium C
Ammonium Phosphate, Dibasic	С	Barium C
Ammonium Phosphate, Monobasic	С	Barium H
Ammonium Phosphate, Tribasic	В	Barium H
Ammonium Sulfate	В	Barium N
Ammonium Sulfide	Α	Barium S
Ammonium Sulfite	В	Barium S
Ammonium Thiocyanate	Α	Bay Oil
Ammonium Thiosulfate	Α	Beer
Amyl Acetate	Α	Beet Sug
Amyl Alcohol (methyl butanol)	Α	Benzalde
Amyl Chloride	Α	Benzene
Amyl Hydride (pentane)	С	Benzene
Aniline	В	Benzine
Aniline Oils	Α	Benzoic /
Aniline Hydrochloride	D	Benzol
Anise Oil	Α	Benzonit
Antifreeze (ethylene glycol)	Α	Benzyl A
Antimony Trichloride (antimony chloride)	D	Benzyl B
Apple Acid (malic acid)	A	Benzyl C

Aqua Regia (80% HCI, 20% HNO ₃) Arochlor 1248 B Aromatic Hydrocarbons C Arsenic Acid Asphalt Aviation Fuel Aviation Turbine Fuel Baking Soda (sodium bicarbonate) Barium Acetate B Barium Carbonate B Barium Chloride A Barium Hydrate A Barium Hydroxide B Barium Sulfate B Barium Sulfate B Barium Sulfide B Barium Sulfide	Chemical	
Aromatic Hydrocarbons C Arsenic Acid Asphalt Aviation Fuel Aviation Turbine Fuel Baking Soda (sodium bicarbonate) ABarium Acetate Barium Carbonate Barium Chloride Barium Cyanide ABarium Hydrate ABarium Nitrate Barium Sulfate Barium Sulfate Barium Sulfate Barium Sulfate Barium Sulfate Barium Sulfide Barium Sulfide Barium Sulfide Barium Sulfide Barium ABarium Sulfate Barium Sulfate Barium Sulfate Barium Sulfide Bary Oil ABeer ABeet Sugar Liquids ABenzaldehyde BBBenzene AABeet Sulfonic Acid BBBenzol ABBenzol ABBenzol ABBenzol BBBenzyl Alcohol BBBenzyl Benzoate	Aqua Regia (80% HCl, 20% HNO ₃)	D
Arsenic Acid Asphalt Aviation Fuel Aviation Turbine Fuel Baking Soda (sodium bicarbonate) ABarium Acetate Barium Carbonate Barium Cyanide ABarium Hydrate Barium Nitrate Barium Sulfide Barium Sulfide Bay Oil ABeer ABeet Sugar Liquids Benzene Benzene Benzoic Acid Benzol Benzol Alcohol Benzyl Alcohol Benzyl Benzoate AA Axiation Fuel AA Axiation Turbine Fuel ABBarium Acetate BBBarium Acetate BBBarium Carbonate BBBarium Carbonate BBBarium Cyanide ABBarium Cyanide ABBarium Hydroxide ABBarium Hydroxide BBBarium Sulfate BBBarium Sulfate BBBarium Sulfide BBBarium ABBarium ABBariu	Arochlor 1248	В
Asphalt Aviation Fuel Aviation Turbine Fuel Asking Soda (sodium bicarbonate) ABarium Acetate Barium Carbonate Barium Chloride ABarium Cyanide ABarium Hydrate ABarium Hydroxide Barium Sulfate Barium Sulfate Barium Sulfate Barium Sulfate Barium Sulfide Barium Sulfide Barium Sulfide Barium Sulfide Barium Sulfate Barium Sul	Aromatic Hydrocarbons	С
Aviation Fuel A Aviation Turbine Fuel A Baking Soda (sodium bicarbonate) A Barium Acetate B Barium Carbonate B Barium Chloride A Barium Cyanide A Barium Hydrate A Barium Hydroxide B Barium Sulfate B Barium Sulfate B Barium Sulfide B Bay Oil A Beer A Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene Sulfonic Acid B Benzoic Acid B Benzoic Acid B Benzol A Benzoltrile D Benzyl Alcohol B Benzyl Benzoate A	Arsenic Acid	Α
Aviation Turbine Fuel A Baking Soda (sodium bicarbonate) A Barium Acetate B Barium Carbonate B Barium Chloride A Barium Cyanide A Barium Hydrate A Barium Hydroxide B Barium Nitrate B Barium Sulfate B Barium Sulfide B Bary Oil A Beer A Beet Sugar Liquids A Benzaldehyde B Benzene Sulfonic Acid B Benzine (ligroin) A Benzol A Benzol A Benzol A Benzol A Benzoltrile D Benzyl Alcohol B Benzyl Benzoate A	Asphalt	Α
Baking Soda (sodium bicarbonate) Barium Acetate B Barium Carbonate B Barium Chloride A Barium Cyanide A Barium Hydrate B Barium Hydroxide B Barium Nitrate B Barium Sulfate B Barium Sulfate B Barium Sulfide B Barium Sulfide B Bay Oil A Beer A Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene Sulfonic Acid B Benzine (ligroin) A Benzol A Benzol A Benzol A Benzol B Benzol A Benzol B Benzol B Benzol B Benzol B Benzol A Benzol A Benzol B Benzol A Benzol B Benzol A Benzol B	Aviation Fuel	Α
Barium Acetate B Barium Carbonate B Barium Chloride A Barium Cyanide A Barium Hydrate A Barium Hydroxide B Barium Nitrate B Barium Sulfate B Barium Sulfide B Barium Sulfide B Bay Oil A Beer A Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene B Benzene Cligroin) A Benzoic Acid B Benzol A Benzol A Benzol B Benzol A Benzol B	Aviation Turbine Fuel	Α
Barium Carbonate B Barium Chloride A Barium Cyanide A Barium Hydrate A Barium Hydroxide B Barium Nitrate B Barium Sulfate B Barium Sulfide B Bay Oil A Beer A Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene B Benzene Sulfonic Acid B Benzine (ligroin) A Benzoic Acid B Benzol A Benzol B Benzyl Alcohol B Benzyl Benzoate A	Baking Soda (sodium bicarbonate)	Α
Barium Chloride Barium Cyanide A Barium Hydrate A Barium Hydroxide B Barium Nitrate B Barium Sulfate B Barium Sulfide B Barium Sulfide B Bay Oil A Beer A Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene Sulfonic Acid B Benzine (ligroin) A Benzoic Acid B Benzol A Benzol B Benzol B Benzyl Alcohol B Benzyl Benzoate A	Barium Acetate	В
Barium Cyanide Barium Hydrate A Barium Hydroxide Barium Nitrate Barium Sulfate Barium Sulfide Bay Oil A Beer A Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene Sulfonic Acid B Benzoic Acid B Benzol A Benzol A Benzol A Benzol A Benzol A Benzol A Benzol A Benzol A Benzol A Benzol A Benzol A Benzyl Alcohol B Benzyl Benzoate A	Barium Carbonate	В
Barium Hydrate Barium Hydroxide Barium Nitrate Barium Sulfate Barium Sulfide Barium Sulfide Bay Oil A Beer A Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene Sulfonic Acid B Benzine (ligroin) A Benzoic Acid B Benzol A Benzol B Benzol A Benzol B Benzol A Benzyl Alcohol B Benzyl Benzoate A	Barium Chloride	Α
Barium Hydroxide Barium Nitrate Barium Sulfate Barium Sulfide Barium Sulfide Bay Oil ABeer ABeet Sugar Liquids ABenzaldehyde BBenzene BBenzene BBenzene Cligroin ABenzoic Acid BBenzoic Acid BBenzol Benzol BBenzol BBenzol ABenzol BBenzol BB	Barium Cyanide	Α
Barium Nitrate B Barium Sulfate B Barium Sulfide B Bay Oil A Beer A Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene B Benzene (ligroin) A Benzoic Acid B Benzoic Acid B Benzol A Benzol A Benzol A Benzyl Alcohol B Benzyl Benzoate A	Barium Hydrate	Α
Barium Sulfide B Barium Sulfide B Bay Oil A Beer A Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene Sulfonic Acid B Benzine (ligroin) A Benzoic Acid B Benzol A Benzol A Benzol A Benzol A Benzyl Alcohol B Benzyl Benzoate A	Barium Hydroxide	В
Barium Sulfide B Bay Oil A Beer A Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene Sulfonic Acid B Benzine (ligroin) A Benzoic Acid B Benzoic Acid B Benzol A Benzol A Benzol A Benzol A Benzol A Benzyl Alcohol B Benzyl Benzoate A	Barium Nitrate	В
Bay Oil A Beer A Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene Sulfonic Acid B Benzine (ligroin) A Benzoic Acid B Benzoic Acid B Benzol B Benzol A Benzol A Benzol A Benzol A Benzyl Alcohol B Benzyl Benzoate A	Barium Sulfate	В
Beer A Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene Sulfonic Acid B Benzine (ligroin) A Benzoic Acid B Benzoic Acid B Benzol B Benzol A Benzol A Benzol A Benzol A Benzol A Benzyl Alcohol B Benzyl Benzoate A	Barium Sulfide	В
Beet Sugar Liquids A Benzaldehyde B Benzene B Benzene Sulfonic Acid B Benzine (ligroin) A Benzoic Acid B Benzoic Acid B Benzol B Benzol A Benzonitrile D Benzyl Alcohol B Benzyl Benzoate A	Bay Oil	Α
Benzaldehyde B Benzene B Benzene Sulfonic Acid B Benzine (ligroin) A Benzoic Acid B Benzoic Acid B Benzol B Benzol A Benzonitrile D Benzyl Alcohol B Benzyl Benzoate A	Beer	Α
Benzene B Benzene Sulfonic Acid B Benzine (ligroin) A Benzoic Acid B Benzoic Acid B Benzol A Benzol A Benzonitrile D Benzyl Alcohol B Benzyl Benzoate A	Beet Sugar Liquids	Α
Benzene Sulfonic Acid Benzine (ligroin) A Benzoic Acid Benzoic Acid Benzol A Benzol Benzol Benzol A Benzonitrile D Benzyl Alcohol B Benzyl Benzoate A	Benzaldehyde	В
Benzine (ligroin) Benzoic Acid Benzol Benzol A Benzonitrile D Benzyl Alcohol Benzyl Benzoate A	Benzene	В
Benzoic Acid Benzol A Benzol A Benzonitrile D Benzyl Alcohol Benzyl Benzoate A	Benzene Sulfonic Acid	В
Benzol A Benzonitrile D Benzyl Alcohol B Benzyl Benzoate A	Benzine (ligroin)	A
Benzonitrile D Benzyl Alcohol B Benzyl Benzoate A	Benzoic Acid	В
Benzyl Alcohol B Benzyl Benzoate A	Benzol	Α
Benzyl Benzoate A	Benzonitrile	D
	Benzyl Alcohol	В
Benzyl Chloride B	Benzyl Benzoate	Α
	Benzyl Chloride	В

Key to General Chemical Resistance [all data based on 72 ° (22 °C) unless noted]

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B= Good - Minor Effect, slight corrosion or discoloration

ver 26-Oct-2018

Black Liquor	Α	Butyraldehyde	D
Boletic Acid (fumaric acid)	В	Butyric Acid	В
Bone Oil (Dippel's oil)	Α	Calcium Acetate	Α
Borax (sodium borate)	A	Calcium Bisulfate	Α
Boric Acid	Α	Calcium Bisulfide	В
Brake Fluid	Α	Calcium Bisulfite	Α
Brewery Slop	Α	Calcium Carbonate	В
Brine (salt water)	В	Calcium Chlorate	В
Bromic Acid, 3.1%	D	Calcium Chloride	В
Bromine Gas, dry	D	Calcium Hydroxide (lye)	В
Bromine Gas, wet	D	Calcium Hypochlorite	В
Bromine Liquid	D	Calcium Nitrate	В
Bromine Water	D	Calcium Oxide	Α
Butadiene Gas	Α	Calcium Phosphate	Α
Butane	Α	Calcium Sulfate	В
Butanedioic Acid (succinic acid)	Α	Calcium Sulfide	A
Butanediol (butylene glycol)	Α	Calgon (sodium hexametaphosphate)	Α
Butanol (butyl alcohol)	Α	Cane Juice	Α
Butter	Α	Cane Sugar Liquors	Α
Buttermilk	Α	Carbinol (methanol, methyl alcohol)	Α
Butyl Acetate	Α	Carbolic Acid (phenol)	В
Butyl Alcohol (butanol)	Α	Carbon Bisulfide	В
Butyl Amine (butylamine)	Α	Carbon Dioxide, dry	Α
Butyl Cellosolve (cellosolve)	Α	Carbon Dioxide, wet	А
Butyl Chloride (chlorobutane)	Α	Carbon Disulfide	В
Butyl Ether	Α	Carbon Monoxide Gas	А
Butyl Phenol	Α	Carbon Tetrachloride	В
Butyl Phthalate	В	Carbon Tetrachloride, dry	В
Butyl Stearate	Α	Carbon Tetrachloride, wet	А
Butylene	A	Carbonated Water (carbonic acid)	Α

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A = Excellent - No Effect C = Fair - Moderate Effect, not recommended

B= Good - Minor Effect, slight corrosion or discoloration

ver 26-Oct-2018

Α

Α

Α

Α

A D В D

A Α

В

В

Α A Α В Α A В

В

В

Α A Α

Chemical		Chemical
Carbonic Acid (carbonated water)	Α	Citrus Oils (citric oils, limonene)
Castor Oil	Α	Clorox® (bleach)
Catsup	Α	Clove Oil
Caustic Potash (potassium hydroxide, lye)	Α	Coconut Oil
Celiosolve (butyl celiosolve)	Α	Cod Liver Oil
Chloric Acid	С	Coffee
Chlorinated Glue	Α	Coke Oven Gas
Chlorine Dioxide, 15%	D	Copper Acetate
Chlorine Gas, dry	В	Copper Carbonate
Chlorine Gas, wet	D	Copper Chloride
Chlorine Liquid	D	Copper Cyanide
Chlorine Water	С	Copper Fluoborate
Chlorine, anhydrous liquid	С	Copper Fluoride
Chloroacetic Acid	Α	Copper Nitrate
Chlorobenzene, Mono (monochlorobenzene)	В	Copper Sulfate, 5% (cupric sulfate)
Chlorobromomethane	В	Copper Sulfate, >5% (cupric sulfate)
Chlorobutane (butyl chloride)	Α	Corn Oil
Chlorodifluoromethane (Freon 22)	Α	Cottonseed Oil
Chloroacetic Acid	В	Cream
Chloroform	Α	Cresols
Chlorosulfonic Acid	В	Creosote Oil
Chocolate Syrup	A	Cresylic Acid
Chromic Acid, 5%	Α	Crude Oils, sour
Chromic Acid, 10%	В	Cupric Acid
Chromic Acid, 30%	В	Cupric Sulfate, 5% (copper sulfate)
Chromic Acid, 50%	В	Cupric Sulfate, >5% (copper sulfate)
Cider	Α	Cutting Oil
Cinnamon Oil	Α	Cyanic Acid
Citric Acid	Α	Cyclohexane
Citric Oils (citrus oils, limonene)	A	Cyclohexanol

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D = Severe Effect, not recommended for ANY use B= Good - Minor Effect, slight corrosion or discoloration

ver 26-Oct-2018

Cyclohexanone	Α
Deionized Water (demineralized water)	Α
Detergents	А
Dextrin (starch gum)	Α
Dextrose (glucose)	Α
Diacetone Alcohol	В
Dibenzyl Ether	Α
Dibutyl Ether	Α
Dibutyl Phthalate	Α
Dichlorobenzene	В
Dichlorodifluoromethane (Freon 12	В
Dichloroethane (ethylene dichloride)	В
Dichloroethylene	В
Dichloroisopropyl Ether	Α
Diesel Fuel (20, 30, 40, 50)	Α
Diethyl Ether (ethyl ether, ether)	В
Diethanolamine	Α
Diethylamine	Α
Diethylene Glycol	Α
Diisobutylene	Α
Diisopropyl Ketone	Α
Dimethyl Aniline	В
Dimethyl Ether (methyl ether)	С
Dimethyl Formamide	В
Dimethyl Ketone (acetone)	Α
Dioctyl Phthalate	Α
Dioxane	Α
Diphenyl (Dowtherm)	В
Diphenyl Oxide (diphenyl ether)	Α
Dippel's Oil (bone oil)	Α

Chemical	
Disodium Phosphate	Α
Dowtherm (diphenyl)	В
Dry Cleaning Solvents	Α
Dyes	Α
Epichlorohydrin	Α
Epsom Salts (magnesium sulfate)	В
Ethane	Α
Ethanol	Α
Ethanolamine	Α
Ether (diethyl ether, ethyl ether)	В
Ethers	Α
Ethyl Acetate	В
Ethyl Acrylate	Α
Ethyl Alcohol (ethanol)	Α
Ethyl Benzoate	Α
Ethyl Bromide	Α
Ethyl Chloride	Α
Ethyl Ether (diethyl ether, ether)	В
Ethyl Formate	Α
Ethyl Sulfate	D
Ethylbenzene	Α
Ethylene Bromide	Α
Ethylene Chloride	В
Ethylene Chlorohydrin	В
Ethylene Diamine	В
Ethylene Dichloride (dichloroethane)	В
Ethylene Glycol (antifreeze)	В
Ethylene Oxide	В
Fatty Acids	Α
Ferric Chloride	D

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ver 26-Oct-2018

Chemical Ferric Hydroxide	А
Ferric Nitrate	В
Ferric Sulfate	А
Ferrous Chloride	D
Ferrous Sulfate	В
Flaxseed Oil	Α
Fluoboric Acid	В
Fluorine Gas, wet	D
Fluosilicic Acid	В
Formaldehyde, 40%	Α
Formaldehyde, 100%	Α
Formic Acid	Α
Freon 11 Trichlorofluoromethane	Α
Freon 12 Dichlorodifluoromethane	В
Freon 22 Chlorodifluoromethane	Α
Freon 113 Trichlorotrifluoroethane	Α
Freon TF Trichlorotrifluoroethane	Α
Fructose	Α
Fruit Juices	Α
Fuel Oils (1, 2, 3, 5A, 5B, 6)	Α
Fumaric Acid (boletic acid)	В
Furan Resin	Α
Furfural (ant oil)	В
Furfuryl Alcohol	Α
Gallic Acid	В
Gasoline, high aromatic	А
Gasoline, leaded	Α
Gasoline, unleaded	А
Gelatin	Α
Gin	А

Chemical	
Ginger Oil	D
Gluconic Acid, 50%	D
Glucose (dextrose)	Α
Glue, (PVA, polyvinyl acetate)	Α
Glycerin	Α
Glycerol (glycyl alcohol)	Α
Glycolic Acid (hydroxyacetic acid)	Α
Glycols	Α
Glycyl Alcohol (glycerol)	Α
Glyoxal, 30%	Α
Gold Monocyanide	Α
Grape Juice	Α
Grease	Α
Green Liquor (alkaline pulp)	Α
Helium Gas	Α
Heptane	Α
Hexane	Α
Hexyl Alcohol (hexanol)	Α
Honey	Α
Hydraulic Oils, petroleum	Α
Hydraulic Oils, synthetic	Α
Hydrazine	Α
Hydrobromic Acid, 20%	D
Hydrobromic Acid, 100%	D
Hydrochloric Acid, 20%	D
Hydrochloric Acid, 37%	D
Hydrochloric Acid, 100%	D
Hydrochloric Acid, aerated	D
Hydrochloric Acid, air free	D
Hydrochloric Acid, dry gas	D

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ver 26-Oct-2018

Hydrocyanic Acid (prussic acid)	Α
Hydrofluoric Acid, 20%	D
Hydrofluoric Acid, 50%	D
Hydrofluoric Acid, 75%	D
Hydrofluoric Acid, 100%	В
Hydrofluosilicic Acid, 100%	D
Hydrofluosilicic Acid, 20%	В
Hydrogen Chloride Gas, dry	А
Hydrogen Cyanide	Α
Hydrogen Gas	А
Hydrogen Peroxide, 10%	В
Hydrogen Peroxide, 30%	В
Hydrogen Peroxide, 50%	Α
Hydrogen Peroxide, 100%	А
Hydrogen Sulfide, aqueous	Α
Hydrogen Sulfide, dry	Α
Hydroquinone	В
Hydroxyacetic Acid (glycolic acid)	Α
Hypochlorous Acid	D
Inks	С
lodine	D
lodine, in alcohol	D
lodoform	Α
Isobutyl Alcohol	Α
Isooctane	Α
Isophorone	С
Isopropyl Acetate	Α
Isopropyl Alcohol	В
Isopropyl Chloride	Α
Isopropyl Ether	Α

Ketones Kraft Liquor Lacquer Thinners Lacquers Lactic Acid (milk acid) Lard Latex Lead Acetate (sugar of lead) Lead Nitrate Lead Sulfamate Lead Sulfate Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	A A A A B B C A
Ketones Kraft Liquor Lacquer Thinners Lacquers Lactic Acid (milk acid) Lard Latex Lead Acetate (sugar of lead) Lead Nitrate Lead Sulfamate Lead Sulfate Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	A A A B A B B C
Kraft Liquor Lacquer Thinners Lacquers Lactic Acid (milk acid) Lard Latex Lead Acetate (sugar of lead) Lead Nitrate Lead Sulfamate Lead Sulfate Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	A A B B C
Lacquer Thinners Lacquers Lactic Acid (milk acid) Lard Latex Lead Acetate (sugar of lead) Lead Nitrate Lead Sulfamate Lead Sulfate Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	A A B A A B C
Lacquers Lactic Acid (milk acid) Lard Latex Lead Acetate (sugar of lead) Lead Nitrate Lead Sulfamate Lead Sulfate Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	A B A B C
Lactic Acid (milk acid) Lard Latex Lead Acetate (sugar of lead) Lead Nitrate Lead Sulfamate Lead Sulfate Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	B A A B C
Lard Latex Lead Acetate (sugar of lead) Lead Nitrate Lead Sulfamate Lead Sulfate Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	A A B C
Latex Lead Acetate (sugar of lead) Lead Nitrate Lead Sulfamate Lead Sulfate Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	A B B
Lead Acetate (sugar of lead) Lead Nitrate Lead Sulfamate Lead Sulfate Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	B B C
Lead Nitrate Lead Sulfamate Lead Sulfate Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	ВС
Lead Sulfamate Lead Sulfate Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	С
Lead Sulfate Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	
Lemon Oil (citrus oils, limonene) Ligroin (benzine) Lime (calcium oxide)	Α
Ligroin (benzine) Lime (calcium oxide)	
Lime (calcium oxide)	Α
Zimo (calciam chac)	Α
Limonene (citrus oils)	Α
	Α
Linoleic Acid	Α
Linseed Oil	Α
Liquid Rosin (tall oil, tallol)	Α
Liquefied Petroleum Gas (LPG)	Α
Lithium Bromide	Α
Lithium Chloride	Α
Lithium Hydroxide	В
Lubricants	Α
Lye, Ca(OH) ₂ Calcium Hydroxide	В
Lye, KOH Potassium Hydroxide	Α
Lye, NaOH Sodium Hydroxide	В
Magnesium Bisulfate	Α
Magnesium Carbonate	В

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ver 26-Oct-2018

Chemical	
Magnesium Chloride	D
Magnesium Hydroxide (Milk of Magnesia)	A
Magnesium Nitrate	В
Magnesium Oxide	Α
Magnesium Sulfate (Epsom salts)	В
Maleic Acid	В
Maleic Anhydride	Α
Malic Acid (apple acid)	Α
Manganese Sulfate	В
Mash, brewing	Α
Mayonnaise	Α
Melamine (triazine)	D
Mercuric Chloride, dilute	D
Mercuric Cyanide	С
Mercuric Nitrate	Α
Mercurous Nitrate	Α
Mercury	Α
Methacrylic Acid, glacial	Α
Methane Gas (natural gas, methyl hydride)	Α
Methanol (methyl alcohol, wood alcohol)	Α
Methyl Acetate	В
Methyl Acetone	Α
Methyl Acrylate	A
Methyl Alcohol, 10% (methanol, wood alcohol)	Α
Methyl Alcohol	Α
Methyl Amine (methylamine)	Α
Methyl Benzene (Toluol, toluene)	Α
Methyl Bromide	Α
Methyl Butanol (amyl alcohol)	Α
Methyl Butyl Ketone (MBK)	Α

Chemical	
Methyl Cellosolve	В
Methyl Chloride	Α
Methyl Chloroform (trichloroethane)	В
Methyl Cyanide (acetonitrile)	Α
Methyl Ether (dimethyl ether)	С
Methyl Ethyl Ketone (MEK)	Α
Methyl Formate	Α
Methyl Hydride (methane gas, natural gas)	Α
Methyl Isobutyl Alcohol	Α
Methyl Isobutyl Ketone	В
Methyl Isopropyl Ketone	Α
Methyl Methacrylate	В
Methyl Salicylate (wintergreen oil)	Α
Methylamine (methyl amine)	Α
Methylene Chloride (methyl dichloride)	В
Milk	Α
Milk Acid (lactic acid)	В
Milk of Magnesia (magnesium hydroxide)	Α
Mineral Oil	Α
Mineral Spirits	Α
Molasses	Α
Monochloroacetic acid	Α
Monochlorobenzene (chlorobenzene)	В
Monoethanolamine	Α
Morpholine	Α
Motor Oils	Α
Mustard	Α
Naphtha	Α
Naphthalene	Α
Natural Gas (methane gas, methyl hydride)	Α

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Chemical		Chemical	
Neon Gas	Α	Oil, Cottonseed	A
Nickel Acetate	Α	Oil, Creosote	В
Nickel Chloride	С	Oil, Cutting	Α
Nickel Nitrate	В	Oil, Flaxseed	А
Nickel Sulfate	В	Oil, Ginger	D
Nitrating Acid, <15% HNO₃	D	Oil, Lemon (citrus oils, limonene)	А
Nitrating Acid, >15% H ₂ SO ₄	С	Oil, Linseed	А
Nitrating Acid, S1% acid	Α	Oil, Mineral	Α
Nitrating Acid, S15% H₂SO₄	С	Oil, Olive	Α
Nitric Acid, 5-10%	Α	Oil, Orange (citrus oils, limonene)	А
Nitric Acid, 20%	Α	Oil, Palm	Α
Nitric Acid, 50%	Α	Oil, Peanut	А
Nitric Acid, concentrated	Α	Oil, Peppermint	Α
Nitrobenzene (Oil of Mirbane)	В	Oil, Pine	А
Nitrogen Gas	Α	Oil, Rapeseed	Α
Nitromethane	Α	Oil, Rosin	Α
Nitrous Acid	В	Oil, Sesame Seed	Α
Nitrous Oxide Gas	В	Oil, Silicone	Α
Octyl Alcohol	Α	Oil, Soybean	Α
Oil, Anise	Α	Oil, Wintergreen (methyl salicylate)	Α
Oil, Ant (furfural)	В	Oil of Mirbane (nitrobenzene)	В
Oil, Bay	A	Oils, Aniline	Α
Oil, Bone (Dippel's oil)	Α	Oils, Citrus (citric oil, limonene)	A
Oil, Castor	Α	Oils, Crude Sour	Α
Oil, Cinnamon	Α	Oils, Diesel Fuel (20, 30, 40, 50)	А
Oil, Citric (citrus oils, limonene)	Α	Oils, Fuel (1, 2, 3, 5A, 5B, 6)	А
Oil, Clove	Α	Oils, Hydraulic (petroleum)	А
Oil, Coconut	Α	Oils, Hydraulic (synthetic)	А
Oil, Cod Liver	Α	Oils, Motor	А
Oil, Corn	A	Oils, Rosin	Α

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Chemical	
Oils, Tanning	Α
Oils, Thread Cutting	Α
Oils, Transformer	Α
Oils, Turbine	Α
Oils, Vegetable	Α
Oleic Acid (red oil)	Α
Oleum 100%	Α
Oleum 25%	В
Olive Oil	Α
Orange Oil (citrus oils, limonene)	Α
Oxalic Acid (cold)	Α
Oxygen Gas	Α
Ozone	Α
Palm Oil	А
Palmitic Acid	Α
Paraffin	Α
Peanut Oil	А
Pentane (amyl hydride)	С
Peppermint Oil	Α
Perchloric Acid	С
Perchloroethylene	Α
Petrolatum	А
Petroleum	Α
Phenol, 10%	В
Phenol (carbolic acid)	В
Phosphoric Acid, >40%	D
Phosphoric Acid, S40%	С
Phosphoric Acid, crude	В
Phosphoric Acid, molten	С
Phosphorus Oxychloride	D
Key to General Chemical Resistance Iall data hased	on 72 ° (22 °C) i

Chemical	
Phosphorus Trichloride, dry	Α
Photographic Developer	Α
Photographic Solutions	Α
Phthalic Acid	Α
Phthalic Anhydride	Α
Pickling Solutions	D
Picric Acid	В
Pine Oil	Α
Polyvinyl Acetate Emulsion	Α
Potash (potassium carbonate)	В
Potassium Acetate	Α
Potassium Bicarbonate	В
Potassium Bichromate (potassium dichromate)	В
Potassium Bisulfate	Α
Potassium Bromate	Α
Potassium Bromide	В
Potassium Carbonate (potash)	Α
Potassium Chlorate	В
Potassium Chloride	Α
Potassium Chromate	В
Potassium Cyanide Solutions	В
Potassium Dichromate (potassium bichromate)	В
Potassium Ferricyanide	В
Potassium Ferrocyanide	В
Potassium Fluoride	Α
Potassium Hydroxide, 10% (caustic potash)	Α
Potassium Hydroxide, 25% (caustic potash)	Α
Potassium Hydroxide (caustic potash, lye)	Α
Potassium Hypochlorite	В
Potassium Iodide	Α

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Chemical	
Potassium Nitrate (saltpeter)	В
Potassium Oxalate	В
Potassium Permanganate	В
Potassium Persulfate	Α
Potassium Phosphate	Α
Potassium Sulfate	Α
Potassium Sulfide	В
Propane, liquefied	А
Propyl Acetate	А
Propyl Alcohol (propanol)	А
Propylene	Α
Propylene Dichloride	А
Propylene Glycol	В
Prussic Acid (hydrocyanic acid)	Α
Pyridine	Α
Pyrogallic Acid (pyrogallol)	В
PVA (glue, polyvinyl acetate)	Α
Rapeseed Oil	А
Rayon Coagulating Bath	Α
Red Oil (oleic acid)	А
Rosin Oils	Α
Rosins	А
Rum	А
Rust Inhibitors	А
Salad Dressings	Α
Salicylic Acid	В
Salt Brine (NaCl saturated)	Α
Sea Water	С
Sesame Seed Oil	Α
Shellac, bleached	Α
Key to General Chemical Resistance Iall data base	 d on 72 ° (22 °C)

Chemical	
Shellac, orange	Α
Silicone Oil	Α
Silver Bromide	D
Silver Chloride	D
Silver Cyanide	Α
Silver Nitrate	В
Soap Solutions	Α
Soda Ash (sodium carbonate)	Α
Sodium Acetate	В
Sodium Aluminate	Α
Sodium Bicarbonate (baking soda)	Α
Sodium Bichromate (sodium dichromate)	В
Sodium Bisulfate	С
Sodium Bisulfite	В
Sodium Borate (Borax)	В
Sodium Bromide	С
Sodium Carbonate (soda ash)	Α
Sodium Chlorate	В
Sodium Chloride	В
Sodium Chromate	В
Sodium Cyanide	В
Sodium Dichromate (sodium bichromate)	В
Sodium Ferricyanide	В
Sodium Ferrocyanide	В
Sodium Fluoride	D
Sodium Hexametaphosphate (Calgon)	Α
Sodium Hydrosulfide	Α
Sodium Hydrosulfite	Α
Sodium Hydroxide, 20% (lye)	В
Sodium Hydroxide, 50% (lye)	В

Chemical	
Sodium Hydroxide, 80% (lye)	В
Sodium Hypochlorite, <20%	С
Sodium Hypochlorite, 100%	D
Sodium Hyposulfate	А
Sodium Metaphosphate	Α
Sodium Metasilicate	А
Sodium Nitrate	В
Sodium Nitrite	А
Sodium Perborate	В
Sodium Perchlorate	В
Sodium Peroxide	Α
Sodium Phosphate Acid	Α
Sodium Polyphosphate	В
Sodium Silicate (water glass)	В
Sodium Sulfate	В
Sodium Sulfide	D
Sodium Sulfite	Α
Sodium Tetraborate	Α
Sodium Thiosulfate, Hypo	В
Sorghum	А
Soy Sauce	Α
Soybean Oil	А
Stannic Chloride (tin chloride)	D
Stannic Fluoborate	Α
Stannous Chloride (tin salts)	Α
Starch (amylum)	А
Starch Gum (dextrin)	А
Stearic Acid	А
Stoddard Solvent	А
Styrene	А
Key to General Chemical Resistance fall data has	ed on 72 ° (22 °C)

Chemical	
Succinic (Butanedioic acid)	Α
Sugar Liquids (sugar solutions)	Α
Sulfamic Acid, 25%	Α
Sulfate Liquors	В
Sulfur Chloride	D
Sulfur Dioxide	Α
Sulfur Dioxide, dry	Α
Sulfur Trioxide	С
Sulfur Trioxide, dry	Α
Sulfuric Acid, <10%	В
Sulfuric Acid, 10-75%	D
Sulfuric Acid, 75-100%	D
Sulfuric Acid, aerated	D
Sulfuric Acid, air free	D
Sulfuric Acid, cold concentrated	В
Sulfuric Acid, hot concentrated	С
Sulfurous Acid	В
Sugar of Lead (lead acetate)	В
Tall Oil (liquid rosin, tallol)	Α
Tallow (animal fats)	Α
Tannic Acid	Α
Tanning Liquors	Α
Tanning Oils	Α
Tartaric Acid	С
Tetrachloroethane	Α
Tetrachloroethylene	Α
Tetraethyl Lead	Α
Tetrahydrofuran	Α
Tetralin (tetrahydro-naphthalene)	Α
Thionyl Chloride	D

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Chemical	
Thread Cutting Oils	Α
Tin Chloride (stannic chloride)	Α
Tin Salts (stannous chloride)	D
Titanium Tetrachloride	В
Toluene (Toluol, methyl benzene)	Α
Tomato Juice	Α
Transformer Oils	Α
Triazine (melamine)	D
Tributyl Phosphate	Α
Trichloroacetic Acid	С
Trichloroethane (methyl chloroform)	В
Trichloroethylene	В
Trichlorofluoromethane (Freon 11, Freon TF)	Α
Trichloropropane	Α
Tricresylphosphate (Tricresyl phosphate, TCP)	В
Triethanolamine	Α
Triethyl Phosphate	Α
Triethylamine	Α
Trisodium Phosphate	В
Turbine Oils	Α
Turpentine	Α
Urea	В
Uric Acid	В
Urine	Α
Varnish	Α
Vegetable Juice	Α
Vegetable Oils	Α
Vinegar, 4-8% acetic acid	Α
Vinyl Acetate	В
Vinyl Chloride	Α

Chemical	
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	Α
White Water, paper mill	Α
Wood Alcohol (methanol, methyl alcohol)	Α
Xenon Gas	Α
Xylene	В
Yeast	Α
Zinc Acetate	Α
Zinc Carbonate	В
Zinc Chloride	D
Zinc Hydrosulfite	Α
Zinc Nitrate	Α
Zinc Sulfate	Α

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C = Fair - Moderate Effect, not recommended
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