

REHAU Chemical Resistance Chart

Key

Material

PVC = plasticized polyvinyl chloride
 PE = polyethylene
 PUR = polyurethane (ester-based)
 EVA = ethylene vinyl acetate

REHAU Product

Rauaim, Rauclear, Raualco, Raufilam PVC, Rauflex
 Rau/LDPE
 Raupuram
 Raufilam PE

E = Excellent
 G = Good
 L = Limited
 U = Unsatisfactory

Material Temperature (°F)	PVC 70/140	PUR 70/140	PE 70/140	EVA 70	Material Temperature (°F)	PVC 70/140	PUR 70/140	PE 70/140	EVA 70
Acetaldehyde	U U	U U	L U	L	Antimony Trichloride	E E	E E	E E	E U
Acetate Solvents—Crude	U U	L U	G L	L	Aqua Regia	L U	U U U	U E	U G
Acetate Solvents—Pure	U U	L U	G L	L	Arsenic Acid 80 Pct.	E G	U U U	E -	U -
Acetic Acid 0-10 Pct.	G L	U U	E G	E	Arylsulfonic Acid	L U	U U U	- -	- -
Acetic Acid 10-20 Pct.	G L	U U	G L	E	Asphalt	E E	E E E	G U	U E
Acetic Acid 20-30 Pct.	G L	U U	G L	E	Barium Carbonate	E E	E E E	E E E	E E E
Acetic Acid 30-60 Pct.	G L	U U	L L	G	Barium Chloride	E E	E E E	E E E	E E E
Acetic Acid 80 Pct.	L L	U U	U U	L	Barium Hydroxide	E E	G L	E E E	E E E
Acetic Acid—Glacial	L U	U U	U U	L	Barium Sulfate	E E	E E	E E E	E E E
Acetic Acid Vapors	G G	U U	G L	G	Beer	E E	- -	E E E	E E E
Acetic Anhydride	U U	U U	U U	U	Beet—Sugar Liquor	E E	- -	E E E	E E E
Acetone	U U	L U	L U	G	Benzaldehyde	U U	U U U	U U U	U U U
Acetylene	E E	E E	L U	U	Benzene	U U	L U U	U U U	U U U
Adipic Acid	G L	U U	G L	G	Benzenesulfonic Acid 10 Pct.	E E	U U U	U U U	U U U
Alcohol (See Type)	- -	- -	- -	-	Benzoic Acid	E E	U U U	G U G	U G
Allyl Alcohol 96 Pct.	U U	U U	E G	G	Benzol	U U	L U	U U	U E
Allyl Chloride	U U	U U	G L	G	Bismuth Carbonate	E E	E E	E E E	E E E
Alum	E E	E E	E E	E	Bleach—12.5 Pct. Active CL	E E	- -	E E	E E
Aluminum Chloride	E E	E E	G G	G	Borax	G L	L U	E E	G L
Aluminum Fluoride	E E	E E	G G	G	Boric Acid	E E	E E	E E E	E E E
Aluminum Hydroxide	E E	E E	G G	G	Boric Acid	E E	G U	E E E	E E E
Aluminum Oxychloride	E E	- -	G G	G	Boron Trifluoride	E E	E E	E E E	E E E
Aluminum Nitrate	E E	E E	E E	E	Brine	E E	G U	E E E	E E E
Aluminum Sulfate	E E	E E	E E	E	Bromic Acid	E L	U U U	G G	G U
Ammonia—Dry Gas	G G	U U	E E	E	Bromine—Liquid	U U	U U U	U U U	U U U
Ammonia—Liquid	U U	U U	E L	E	Bromine—Water	U U	U U U	U U U	U U U
Ammonium Carbonate	E E	E E	E E	E	Butadiene	L U	- -	- -	U U
Ammonium Chloride	E E	G L	E E	E	Butane	E E	E E	L U	U U
Ammonium Fluoride 25 Pct.	U U	L U	G G	G	Butanol—Primary	U U	L U	E G	G G
Ammonium Hydroxide 28 Pct.	E E	L U	G G	G	Butanol—Secondary	U U	L U	E G	G U
Ammonium Metaphosphate	E E	G G	G G	G	Butyl Acetate	U U	L U	E G	U E
Ammonium Nitrate	E E	G G	E E	E	Butyl Alcohol	L U	L U	E G	E U
Ammonium Persulfate	E E	G G	E E	E	Butyl Phenol	L U	- -	U U	U U
Ammonium Phosphate (Ammoniacal)	- -	- -	G G	E	Butylene	E -	- -	- -	- -
Ammonium Phosphate—Neutral	E E	G G	G G	E	Butynediol (Erythritol)	U U	U U	G U	U -
Ammonium Sulfate	E E	E E	E E	E	Butyric Acid 20 Pct.	L U	L U	U U	U U
Ammonium Sulfide	E E	E E	E E	E	Calcium Bisulfite	E E	E E	E E E	E E E
Ammonium Thiocyanate	E E	G G	E E	E	Calcium Carbonate	E E	E E	E E E	E E E
Amyl Acetate	U U	U U	U U	U	Calcium Chlorate	E E	G L	E E E	E E E
Amyl Alcohol	L U	U U	G L	G	Calcium Chloride	E E	E G	E E E	E E E
Amyl Chloride	U U	- -	U U	U	Calcium Hydroxide	E E	G L	E E E	E E E
Aniline	U U	U U	U U	U	Calcium Hypochlorite	E E	U U	E E	E E
Aniline Chlorohydrate	U U	U U	U U	U	Calcium Nitrate	E E	E E	E E E	E E E
Aniline Hydrochloride	U U	U U	U U	U	Calcium Sulfate	E E	E E	E E E	E E E
Anthraquinone	E E	- -	E E	E	Cane Sugar Liquors	E E	- -	G G	G U
Anthraquinonesulfonic Acid	E E	U U	E E	E	Carbon Bisulfide	U U	- -	U U	U U
					Carbon Dioxide (Aqueous Solution)	E E	E E	E E	E E

Material Temperature (°F)	PVC 70/140	PUR 70/140	PE 70/140	EVA 70	Material Temperature (°F)	PVC 70/140	PUR 70/140	PE 70/140	EVA 70
Carbon Dioxide Gas (Wet)	E E	E E	E E	E	Fructose	E E	E E	E E	E
Carbon Monoxide	E E	E E	G G	G	Fruit Pulps and Juices	E E E	E E	E E E	E E
Carbon Tetrachloride	U U	L U	U U	U	Fuel Oil	E E E	- -	U U U	U U
Carbonic Acid	E E E	U U	G G	G	Furfural	U U	U U	U U E	U E
Casein	E E E	E E	E E	E	Gallic Acid	E E E	- -	U U E	E
Castor Oil	E E E	E E	U U	L	Gas—Coke Oven	G G	G G	- -	-
Caustic Potash	E E	L U	L L	G	Gas—Manufactured	U U	- -	- -	-
Caustic Soda	E E	L U	L L	G	Gas—Natural (Dry)	E E E	E E E	U U U	U U
Cellosolve	L U	G L	G L	L	Gas—Natural (Wet)	E E E	E E E	U U U	U U
Chloracetic Acid	E U	U U	U U	U	Gasoline—Refined	L U	E G	L U U	U U
Chloral Hydrate	E E	G L	U U	U	Gasoline—Sour	L U	E G	U U E	U E
Chloric Acid 20 Pct.	E E	U U	- -	-	Gelatine	E E E	E E E	E E E	E E
Chlorine Gas (Dry)	G G	U U	U U	U	Glucose	E E E	E E E	E E E	E E
Chlorine Gas (Moist)	L L	U U	U U	U	Glycerine (Glycerol)	E E E	E E E	E E E	E E
Chlorine Water	E E	L U	L U	L	Glycol	E E E	G G	E E	E
Chlorobenzene	U U	U U	U U	U	Glycolic Acid 30 Pct.	E E	U U	E E	E
Chloroform	U U	U U	U U	U	Green Liquor (Paper Industry)	E E	- -	E E	E
Chlorosulfonic Acid	L U	U U	U U	U	Heptane	L U	E -	U U U	U U
Chrome Alum	E E	E E	G G	G	Hexane	U U	E -	U U U	U U
Chromic Acid 10 Pct.	E E	U U	G L	G	Hexanol, Tertiary	L U	U -	G L	G
Chromic Acid 25 Pct.	G L	U U	G L	G	Hydrobromic Acid 20 Pct.	E G	U U	G G	G
Chromic Acid 30 Pct.	G U	U U	L U	L	Hydrochloric Acid 10 Pct.	E G	U U U	E E	G
Chromic Acid 40 Pct.	L U	U U	L U	L	Hydrochloric Acid 48 Pct.	E G	U U	E G	G
Chromic Acid 50 Pct.	L U	U U	L U	L	Hydrocyanic Acid or Hydrogen Cyanide	E E	U U	G G	G
Citric Acid	E E E	U U	G G	G	Hydrofluoric Acid 4 Pct.	G G	U U U	G G	G
Coconut Oil	E E E	E E	E E	E	Hydrofluoric Acid 10 Pct.	G L	U U U	G G	G
Copper Chloride	E E E	- -	E E	E	Hydrofluoric Acid 48 Pct.	G U	U U U	G L	G
Copper Cyanide	E E E	- -	E E	E	Hydrofluoric Acid 60 Pct.	G U	U U U	G L	G
Copper Fluoride 2 Pct.	E E E	E E E	E E E	E	Hydrofluorosilicic Acid	G L	U U E	- -	-
Copper Nitrate	E E E	E E E	E G	E	Hydrogen	E G	E E E	E G	E
Copper Sulfate	E E E	E E E	E E	E	Hydrogen Peroxide 30 Pct.	E G	G L	G L	E
Core Oils	E E E	E E E	G L	G	Hydrogen Peroxide 50 Pct.	E L	L U	L U	G
Cottonseed Oil	E E E	E E E	E G	E	Hydrogen Peroxide 90 Pct.	U U	U U	U U	G
Cresol	U U	L U	U U	U	Hydrogen Phosphide	E L	- -	G G	G
Cresylic Acid 50 Pct.	L U	U U	U U	U	Hydrogen Sulfide—Aqueous Solution	E E	- -	E G	E
Crude Oil—Sour	E E E	E E E	U U	U	Hydrogen Sulfide—Dry	E E E	- -	E E	E
Crude Oil—Sweet	E E E	E E E	U U	U	Hydroquinone	E E E	E E	E E	E
Cyclohexanol	U U U	L U	L U	U	Hydroxylamine Sulfate	E E E	- -	- -	-
Cyclohexanone	U U U	U U	U U	U	Hypochlorous Acid	E E E	L U	E G	E
Deminerlized Water	E E E	G U	E E	E	Iodine (in Alcohol)	U U	U U U	U U E	U E
Dextrin	E E E	E E E	E E E	E	Isopropylalcohol	E G	L U	E E	U
Dextrose	E E E	E E E	E E E	E	Kerosene	U U	E G	U U U	U
Diazo Salts	E E E	- -	E G	E	Kraft Liquor (Paper Industry)	E E	- -	E G	G
Diglycolic Acid	E G	- -	E G	E	Lacquer Thinners	L U	G -	G L	L
Dimethylamine	U U	U U	U U	U	Lactic Acid 28 Pct.	E E E	L U	E E	E
Diocetylphthalate	U U	G L	L U	U	Lard Oil	E G	E G	G L	G
Disodium Phosphate	E E E	E E E	E E E	E	Lauric Acid	E E E	L U	- -	-
Distilled Water	E E E	G U	E E	E	Lauryl Chloride	E E E	E G	L U	L
Ethers	U U U	G L	U U	U	Lauryl Sulfate	E E E	- -	U U E	E
Ethyl Acetate	U U	L U	L U	U	Lead Acetate	E E E	E E	G G	G
Ethyl Acrylate	U U U	- -	- -	-	Lime Sulfur	E E	- -	G G	G
Ethyl Alcohol 0-50 Pct.	E E	G L	G L	E	Linoleic Acid	E E E	L U	- -	-
Ethyl Alcohol 50-98 Pct.	E E E	L U	L U	G	Linseed Oil	E E E	E E	U U U	U
Ethyl Chloride	U U	U U	U U	U	Liquors	E E E	- -	E G	E
Ethyl Ether	U U	G L	U U	U	Lubricating Oils	E E E	E E	U U U	U
Ethylene Bromide	E U	U U	U U	U	Magnesium Carbonate	E E E	E E E	E E E	E
Ethylene Dichloride	U U	U U	U U	U	Magnesium Chloride	E E E	E E E	E E E	E
Ethylene Glycol	E E	G L	E G	G	Magnesium Hydroxide	E E E	G L	E E E	E
Ethylene Oxide	U U	U U	U U	L	Magnesium Nitrate	E E E	E E E	E E E	E
Fatty Acids	E E E	G L	G L	L	Magnesium Sulfate	E E E	E E E	E E E	E
Ferric Chloride	E E E	E E E	E E E	E	Maleic Acid	E E E	L U	G G	G
Ferric Nitrate	E E E	E E E	E E E	E	Malic Acid	E E E	L U	G G	G
Ferric Sulfate	E G	E E E	E E E	E	Mercuric Chloride	G G	G L	G G	G
Ferrous Chloride	E E E	E E E	E E E	E	Mercuric Cyanide	G G	- -	G G	G
Ferrous Sulfate	E E E	E E E	E E E	E	Mercurous Nitrate	G G	G G	G G	G
Fish Solubles	E E	E G	E E	E	Mercury	G G	- -	G G	G
Fluorine Gas—Dry	U U	U U	U U	U	Methyl Alcohol	E E	G L	E G	E
Fluorine Gas—Wet	U U	U U	U U	U	Methyl Chloride	U U	U U U	U U L	U
Fluoroboric Acid	E E E	U U	E G	E	Methyl Ethyl Ketone	U U	L U	G L	L
Fluorosilicic Acid	E E	U U	G L	G	Methyl Sulfate	E G	E G	- -	-
Food Products such as Milk, Buttermilk, Molasses, Salad Oils, Fruit	E E	- -	E E	E	Methyl Sulfuric Acid	E E E	U U U	G G	G
Formaldehyde	G L	- -	G L	G	Methylene Chloride	U U	U U	U U	U
Formic Acid	E L	U U	E G	E	Milk	E E	- -	E E	E
Freon-12	E G	E E	G L	G					

Material Temperature (°F)	PVC 70/140	PUR 70/140	PE 70/140	EVA 70	Material Temperature (°F)	PVC 70/140	PUR 70/140	PE 70/140	EVA 70
Mineral Oils	E G	E E	L U	U	Potassium Hydroxide 10 Pct.	E E	L U	E E	E
Molasses	E E	E E	E E	E	Potassium Hydroxide 20 Pct.	L L	U U	E E	E
Naphtha	E G	E E	U U	U	Potassium Hydroxide 35 Pct.	U U	U U	G L	G
Naphthalene	U U	- -	L U	U	Potassium Hypochlorite	G L	U U	G G	G
Nickel Acetate	E E	E E	E E	E	Potassium Nitrate	E E	E E	G L	G
Nickel Chloride	E E	E E	E E	E	Potassium Perborate	E E	E E	G L	G
Nickel Nitrate	E E	E E	E E	E	Potassium Perchlorate	E E	G L	G	G
Nickel Sulphate	E E	E E	E E	E	Potassium Permanganate 10 Pct.	G G	G L	E E	E
Nicotine	E E	E E	E E	E	Potassium Persulfate	E E	E E	E E	E
Nicotine Acid	E G	L U	E E	E	Potassium Sulfate	E E	E E	E E	E
Nitric Acid 10 Pct.	G L	U U	G G	L	Potassium Sulfide	E E	E E	E E	E
Nitric Acid 20 Pct.	G L	U U	G G	L	Potassium Thiosulfate	E E	E E	E E	E
Nitric Acid 35 Pct.	G L	U U	G U	L	Propane	E E	E E	U U	U
Nitric Acid 40 Pct.	G L	U U	L U	L	Propargyl Alcohol	E E	- -	G G	G
Nitric Acid 60 Pct.	G U	U U	L U	U	Propyl Alcohol	E E	G L	E E	E
Nitric Acid 68 Pct.	L U	U U	U U	U	Propylene Dichloride	U U	U U	U U	U
Nitric Acid (Anhydrous)	U U	U U	U U	U	Salt Water	U E	G U	E E	E
Nitrobenzene	U U	U U	U U	U	Selenic Acid	E E	U U	G L	G
Nitrous Oxide	E E	E E	- -	-	Silicic Acid	E E	U U	E E	E
Oils and Fats	E G	E E	G L	G	Silver Cyanide	E E	E E	E E	E
Oils, Petroleum	E G	E E	G L	G	Silver Nitrate	E E	E E	E E	E
Oleic Acid	E E	U U	L U	U	Silver Plating Solutions	E G	E E	E G	E
Oleum	U U	U U	U U	U	Soaps	E E	G U	G L	G
Oxalic Acid	E G	U U	G G	G	Sodium Acetate	E E	E E	E E	E
Oxygen	E E	E E	G -	G	Sodium Acid Sulfate	E E	E E	E E	E
Ozone	U U	- -	U U	U	Sodium Antimonate	E E	E E	E E	E
Palmitic Acid 10 Pct.	E E	U U	G L	L	Sodium Arsenite	E E	E E	E E	E
Palmitic Acid 70 Pct.	L U	U U	G U	L	Sodium Benzoate	E G	E E	E E	E
Peracetic Acid 40 Pct.	U U	U U	- -	-	Sodium Bicarbonate	E E	E E	E E	E
Perchloric Acid 10 Pct.	G L	U U	G G	G	Sodium Bisulfate	E E	E E	E E	E
Perchloric Acid 70 Pct.	L U	U U	G L	G	Sodium Bisulfite	E E	E E	E E	E
Phenol	U U	U U	U U	U	Sodium Bromide	E E	E G	E E	E
Phenylhydrazine	U U	- -	L U	-	Sodium Carbonate (Soda Ash)	E E	E E	E E	E
Phenylhydrazine Hydrochloride	L U	- -	L U	-	Sodium Chlorate	G L	G G	E E	E
Phosgene (Gas)	E G	- -	- -	-	Sodium Chloride	E E	E G	E E	E
Phosgene (Liquid)	U U	- -	- -	-	Sodium Cyanide	E E	E E	E E	E
Phosphoric Acid—0-25 Pct.	E G	U U	E G	G	Sodium Dichromate	E G	E G	E E	E
Phosphoric Acid—25-50 Pct.	E G	U U	E G	G	Sodium Ferricyanide	E E	E E	E E	E
Phosphoric Acid—50-75 Pct.	E G	U U	G L	L	Sodium Ferrocyanide	E E	E E	E E	E
Phosphorus (Yellow)	G L	- -	L L	U	Sodium Fluoride	E E	E G	E E	E
Phosphorus Pentoxide	U U	- -	L L	L	Sodium Hydroxide 10 Pct.	E E	G L	E E	E
Phosphorus Trichloride	U U	- -	L U	L	Sodium Hydroxide 35 Pct.	E E	L U	E E	E
Photographic Chemicals	E E	E G	E G	G	Sodium Hydroxide Saturated	U U	U U	E E	E
Picric Acid	U U	U U	G U	L	Sodium Hypochlorite	E E	U U	E E	E
Plating Solutions:					Sodium Nitrate	E E	E E	E E	E
Brass	E E	E E	G G	L	Sodium Nitrite	E E	E E	E E	E
Cadium	E E	E E	G G	L	Sodium Phosphate—Acid	G G	U U	E E	E
Chromium	G G	G G	U U	U	Sodium Silicate	E E	E E	E E	E
Copper	E E	E E	G G	L	Sodium Sulfate	E E	E E	E E	E
Gold	E E	E E	G G	L	Sodium Sulfide	E E	E E	E E	E
Jodium	E E	E E	G G	L	Sodium Sulfite	E E	E E	E E	E
Lead	E E	E E	G G	L	Sodium Thiosulfate (Hypo)	E E	E G	E E	E
Nickel	E E	E E	G G	L	Stannic Chloride	E E	E G	E E	E
Rhodium	E E	E E	G G	L	Stannous Chloride	E G	E G	E E	E
Silver	E E	E E	G G	L	Stoddards Solvent	G G	G G	G L	L
Tin	E E	E E	G G	L	Stearic Acid	G G	L U	E E	E
Zinc	E G	E E	G G	L	Sulfur	G G	- -	E E	G
Potassium Acid Sulfate	E E	E E	E G	G	Sulfur Dioxide Gas—Dry	E E	- -	G G	G
Potassium Antimonate	E E	E E	E E	E	Sulfur Dioxide Gas—Wet	U U	- -	G L	G
Potassium Bicarbonate	E E	E E	E E	E	Sulfuric Acid 0-10 Pct.	E G	U U	E G	G
Potassium Bichromate	E E	E E	E E	E	Sulfuric Acid 10-30 Pct.	E G	U U	G G	G
Potassium Bisulfite	E E	E E	E E	E	Sulfuric Acid 30-50 Pct.	E G	U U	G L	L
Potassium Borate 1 Pct.	E E	E E	E E	E	Sulfuric Acid 50-75 Pct.	E G	U U	L U	U
Potassium Bromate 10 Pct.	E E	E E	E G	E	Sulfuric Acid 75-90 Pct.	L L	U U	U U	U
Potassium Bromide	E E	E E	E G	E	Sulfuric Acid 95 Pct.	U U	U U	U U	U
Potassium Carbonate	E E	E E	E E	E	Sulfurous Acid	E E	U U	G L	L
Potassium Chlorate	E E	G G	E E	E	Sulphur Dioxide—Liquid	E E	- -	U U	U
Potassium Chloride	E E	E G	E E	E	Sulphur Trioxide	E G	- -	U U	U
Potassium Chromate 40 Pct.	E E	G G	E E	E	Tannic Acid	E E	L U	E E	G
Potassium Cuprocyanide	E E	- -	E E	E	Tanning Liquors	E E	- -	G L	L
Potassium Cyanide	E E	E E	E E	E	Tartaric Acid	E E	L U	E E	E
Potassium Dichromate 40 Pct.	E E	G G	E E	E	Tetraethyl Lead	G L	G G	- -	-
Potassium Ferricyanide	E E	E E	E E	E	Tetrahydrofurane	U U	U U	U U	U
Potassium Fluoride	E E	E G	E E	E	Thionyl Chloride	U U	U U	U U	U

Material Temperature (°F)	PVC 70/140	PUR 70/140	PE 70/140	EVA 70	Material Temperature (°F)	PVC 70/140	PUR 70/140	PE 70/140	EVA 70
Tin Chloride	E E	E E	- -	-	Whiskey	E E	G U	E E	E
Titanium Tetrachloride	E U	L U	- -	-	White Gasoline	E E	E G	U U	U
Toluol or Toluene	U U	- -	- -	-	White Liquor (Paper Industry)	E E	- -	- -	-
Tributyl Phosphate	U U	- -	- -	-	Wines	E E	- -	E E	G
Trichloroethylene	U U	L U	U U	U	Xylene or Xylol	U U	G L	U U	L
Tricresylphosphate	U U	U U	L L	L	Zinc Chloride	E E	E E	E E	E
Triethanolamine	G U	- -	G L	L	Zinc Chromate	E E	E E	E E	E
Triethylamine	G L	- -	- -	-	Zinc Cyanide	E E	E E	E E	E
Trimethyl Propane	L U	- -	- -	-	Zinc Nitrate	E E	E E	E E	E
Trisodium Phosphate	E E	E E	E E	E	Zinc Sulfate	E E	E E	E E	E
Turpentine	L U	E G	L U	U	Mixtures of Acids				
Urea	E E	E E	E E	E	Nitric 15 Pct.				
Urine	E E	E E	E E	E	Hydrofluoric 4 Pct.	E G	U U	- -	-
Vinegar	E G	G L	E G	U	Sodium Dichromate 13 Pct.				
Vinyl Acetate	U U	U U	L U	U	Nitric Acid 16 Pct.				
Water—Acid Mine Water	E E	G U	E E	E	Water 71 Pct.	E G	U U	- -	-
Water—Distilled	E E	G U	E E	E					
Water—Fresh	E E	G U	E E	E					
Water—Salt	E E	G U	E E	E					

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