

Chemical Resistance Chart

PVC

Chemical	Temperature (°C)		
	20	40	60
Acetaldehyde	3	3	3
Acetaldehyde Aqueous, 40%	2	3	
Acetamide	1		
Acetic Acid, 10%	1	1	2
Acetic Acid, 20%	1	1	2
Acetic Acid, 25%	1	1	2
Acetic Acid, 30%	1	2	2
Acetic Acid, 60%	1	2	2
Acetic Acid, 80%	1	2	2
Acetic Acid, 85%	1		
Acetic Acid Glacial, 100%	2	3	3
Acetic Acid, Hot			
Acetic Acid, Vapor	1		
Acetic Anhydride	3		
Acetone	3		
Acetone, 5%	3		
Acetone, Pure	3	3	3
Acetone, up to 5%			
Acetonitrile			
Acetopheneditin			
Acetophenone			
Acetyl Acetone	3		
Acetyl Bromide			
Acetyl Chloride	3		

1 – High Resistance

2 – Limited Resistance

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Chemical Resistance Chart

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Chemical	Temperature (°C)		
	20	40	60
Acetyl Nitrite	3		
Acetyl-DL-Alanine			
Acetyl-DL-Valine-N			
Acetyl-DL-Leucine-N			
Acetyl-DL-Methionine-N			
Acetyl-DL-Tryptohpan-N			
Acetylene Gas, 100%	3		
Acetylene Tetrabromide			
Acetylnitrile			3
Acetylsalicylic Acid			
Acrylonitrile	3		
Adipic Acid, Saturated	1	1	2
Aero Lubriplate			
Alanine-DL			
Alcohols	1		
Allyl Alcohol, 96%	2	3	3
Allyl Chloride	3		
Aloin			
Aluminium Acetate, Saturated	1		
Aluminium Ammonium	1		
Aluminium Bromide	1		
Aluminium Chloride, Saturated	1	1	1
Aluminium Fluoride, Saturated	1		1
Aluminium Hydroxide, Saturated	1		1

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Chemical	Temperature (°C)		
	20	40	60
Acetyl Nitrite	3		
Acetyl-DL-Alanine			
Acetyl-DL-Valine-N			
Acetyl-DL-Leucine-N			
Acetyl-DL-Methionine-N			
Acetyl-DL-Tryptohpan-N			
Acetylene Gas, 100%	3		
Acetylene Tetrabromide			
Acetylnitrile			3
Acetylsalicylic Acid			
Acrylonitrile	3		
Adipic Acid, Saturated	1	1	2
Aero Lubriplate			
Alanine-DL			
Alcohols	1		
Allyl Alcohol, 96%	2	3	3
Allyl Chloride	3		
Aloin			
Aluminium Acetate, Saturated	1		
Aluminium Ammonium	1		
Aluminium Bromide	1		
Aluminium Chloride, Saturated	1	1	1
Aluminium Fluoride, Saturated	1		1
Aluminium Hydroxide, Saturated	1		1

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Chemical	Temperature (°C)		
	20	40	60
Aluminium Nitrate, Saturated	1		1
Aluminium Oxalate			
Aluminium Oxide			
Aluminium Oxychloride	1		
Aluminium Potassium Sulfate, Sat'd	1		
Aluminium Salts			
Aluminium Sodium Sulfate	1		
Aluminium Sulfate, Saturated	1	1	1
Alums, NH3-Cr-K			
Ambrex 33 (Mobil)			
Ambrex 830 (Mobil)			
Amines			
Amino Acetic Acid			
Aminobutric-A-DL Acid			
Aminoisobutyric-2 Acid			
Ammonia Anhydrous			
Ammonia Gas	1		
Ammonia Gas, Cold	1	1	1
Ammonia Liquid	2		3
Ammonium Acetate, Saturated	1	1	2
Ammonium Benzoate			
Ammonium Bifluoride, Saturated	1		
Ammonium Bisulfide	1		
Ammonium Bromide			

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Chemical	Temperature (°C)		
	20	40	60
Ammonium Carbonate, Saturated	1	1	2
Ammonium Chloride, Saturated	1		1
Ammonium Citrate			
Ammonium Dichromate	1		
Ammonium Fluoride, 10%	1		
Ammonium Fluoride, 20%	1		2
Ammonium Fluoride, 25%	1		2
Ammonium Fluoro Silicate			
Ammonium Glycolate			
Ammonium Hydroxide	1	1	1
Ammonium Molybdate			
Ammonium Nitrate, Saturated	1		1
Ammonium Nitrite			
Ammonium Oxalate			
Ammonium Oxylate			
Ammonium Persulfate	1		1
Ammonium Persulfate, 10%			
Ammonium Phosphate, Dibasic	1	1	1
Ammonium Phosphate, Monobasic	1	1	1
Ammonium Phosphate	1	1	1
Ammonium Potassium	1		
Ammonium Sulfamate			
Ammonium Sulfate	1	1	2
Ammonium Sulfide, Dilute	1		2

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Chemical	Temperature (°C)		
	20	40	60
Ammonium Sulfocyanide			
Ammonium Tartarate			
Ammonium Thiocyanate	1		
Ammonium Thioglycolate			
Ammonia Acetate, Saturated	1		
Ammonia Gas	1		
Ammonia Liquid	3		
Amyl Acetate	3		3
Amyl Alcohol, Pure	1	1	2
Amyl Borate			
Amyl Chloride	3		
Amyl Chloronaphthalene			
Amyl Naphthalene			
Amyl Phthalate			
Ang-25 (Glyceral Ester)			
Aniline	3		3
Aniline Chlorohydrate	2		3
Aniline Dyes			
Aniline Hydrochloride	1	2	
Aniline Sulphate			
Animal Oil			
Anthranilic Acid			
Anthraquinone	1		
Anthraquinone Sulfonic	1		

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Chemical	Temperature (°C)		
	20	40	60
Antimony Trichloride	1	1	1
Aqua Regia	1	2	2
Arachidic Acid			
Argon, Dry			
Aromatic Fuel, 50%			
Aromatic Hydrocarbons	3		
Arsenic Acid, 80%	1	1	2
Arsenic Trioxide (Powder)	1		
Arylsulfonic Acid	1		
Ascorbic Acid			
Askarel			
Asphalt	3		
ASTM Oil, No. 1	1		
ASTM Oil, No. 2	1		
ASTM Oil, No. 3	1		
Atropine Sulfate			
Aurex 903R (Mobil)			
Automatic Transmission Fluid			
Automotive Brake Fluid	2		
Bardol B			
Barium Acetate, Saturated			
Barium Bromide			
Barium Carbonate, Saturated	1		1
Barium Chloride, Saturated	1	1	1

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Chemical	Temperature (°C)		
	20	40	60
Barium Cyanide			
Barium Hydroxide, 10%	1	1	1
Barium Hydroxide, Saturated	1	1	1
Barium Nitrate, Saturated	1		
Barium Sulfate, Saturated	1	1	1
Barium Sulfide, Saturated	1	1	1
Bayol 35			
Bayol D			
Beer	1	1	1
Beet Sugar Liquors	1		
Benzal Chloride			
Benzaldehyde	3		3
Benzaldehyde, 1%			
Benzaldehyde, 10%	1		
Benzaldehyde, >10%	3		
Benzaldehyde, 5%			
Benzalkonium Chloride	1		
Benzamide			
Benzene	3	3	3
Benzene Sulfonic Acid, Saturated	3	3	3
Benzene Sulfonic Acid, 10%	3	3	3
Benzenesulfonic Acid	3		
Benzenesulfonic Acid, 10%	1		
Benzine	1	1	1

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Chemical	Temperature (°C)		
	20	40	60
Benzochloride			
Benzoic Acid, All	1	1	2
Benzoic Acid Crystals			
Benzoic Sulfimide			
Benzophenone			
Benzotrichloride			
Benzotrifluoride			
Benzoyl Benzoic Acid			
Benzoyl Chloride			
Benzyl Acetate			
Benzyl Alcohol	2		
Benzyl Alcohol, 1.5%			
Benzyl Benzoate			
Benzyl Chloride			
Beryllium Sulfate			
Bismuth Carbonate	1		
Black Liquor	1		
Black Point 77			
Blast Furnace Gas			
Bleach, 12% Active Cl ₂			
Bleach, 5% Active Cl ₂	1		
Bleach Liquor			
Blood			
Borax, Saturated	1	1	2

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Chemical	Temperature (°C)		
	20	40	60
Bordeaux Mixture			
Boric Acid, 10%	1		2
Boric Acid, Saturated	1		2
Boron Fluids (HEF)			
Boron Trifluoride			
Brake Fluid			
Brine, Saturated	1	1	1
Brom-113			
Brom-114			
Bromic Acid	1		
Bromic Acid, 10%	1		1
Bromine, Aqueous			
Bromine Liquid	3		3
Bromine Pentafluoride			
Bromine Trifluoride			
Bromine Vapor, 25%	1		
Bromine Water Cold, Saturated	3		
Bromoacetic Acid			
Bromobenzene			
Bromobutyric-2 Acid			
Bromochloro			
Bromoform			
Bromosalicylic Acid, Saturated			
Bromotoluene	3		

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Chemical	Temperature (°C)		
	20	40	60
Bunker Oil			
Butadiene	1		1
Butadiene, 50%	1		
Butadiene, Gas	1		
Butanane-2,4-P-Methoxy			
Butane, 50%	1		
Butane Gas	1		
Butter – Animal Fat			
Butyl Acetate	3		3
Butyl Acetyl Ricinoleate			
Butyl Acrylate Pure	3		
Butyl Alcohol	1		2
Butyl Benzoate			
Butyl Bromide			
Butyl Butyrate			
Butyl Carbitol			
Butyl Cellosolve			
Butyl "Cellosolve" Adipate			
Butyl Chloride			
Butyl Ether	3		
Butyl Glycolate			
Butyl Mercaptan			
Butyl Oleate			
Butyl Phenol	2		2

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Chemical	Temperature (°C)		
	20	40	60
Butyl Phthalate	3		
Butylamine, Saturated			
Butylene, Liquid	2		
Butyric Acid	1		
Butyric Acid, Pure	1		
Calcium Bisulfide	1	1	1
Calcium Bisulfite	1	1	1
Calcium Carbonate	1	1	1
Calcium Chlorate	1	1	1
Calcium Chloride, Saturated	1		2
Calcium Hydroxide, 30%	1	1	1
Calcium Hydroxide, Saturated	1	1	1
Calcium Hypochlorite		2	
Calcium Nitrate, Saturated	1	1	1
Calcium Sulfate	1	1	1
Calcium Sulfide, Saturated	1	1	1
Camphor Oil	1		
Carbon Dioxide, Pure Anhydrous	1	1	1
Carbon Dioxide, Pure Moist	1	1	1
Carbon Disulfide	2		3
Carbon Monoxide, Gas	1	1	1
Carbon Tetrachloride	2		3
Carbonic Acid, Saturated	1	1	1
Caustic Potash, 50%	1	1	2

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Chemical	Temperature (°C)		
	20	40	60
Caustic Soda, 10%	1	1	2
Caustic Soda, 50%	1	1	1
Caustic Soda, up to 40%	1	1	2
Chloral Hydrate, All			
Chloramine, Diluted	1		
Chloric Acid, 10%	1	1	2
Chloric Acid, 20%	1	1	2
Chlorinated Water, 0.3% Saturated	1	1	1
Chlorine, Liquid	3		
Chloroacetic Acid, 50%	1	1	2
Chlorobenzene, Dry	3	3	3
Chloroform, Dry	3	3	
Chlorosulfonic Acid	2		3
Chrome Alum	1	1	2
Chromic Acid, 10%	1		2
Chromic Acid, 30%	1		2
Chromic Acid, 50%	1	1	2
Cider	1		
Coconut Oil	1	1	2
Compressed Air	2		
Copper Chloride, Saturated	1		1
Copper Cyanide	3	3	3
Copper Fluoborate	1	1	1
Copper Nitrate, 30%	1		2

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Chemical	Temperature (°C)		
	20	40	60
Copper Salts	1	1	2
Copper Sulfate, Saturated	1	1	1
Cottonseed Oil	1	1	1
Creosols	2		3
Creosylic Acid	2		3
Cresol, 50%	2		3
Cresol, 90%	3	3	3
Cyclohexane	3	3	3
Cyclohexanol	1	1	1
Cyclohexanone	3	3	3
Decahydronaphthalene	1	1	1
Detergent, Water Solution	1	1	2
Di(Butoxyethyl) Phthalate	3	3	3
Dibutyl Phthalate			
Dibutyl Sebacate			
Dichloro Ethane	3	3	
Dichlorobenzene			
Dichloroethylene	3	3	3
Diethyl Ether	3	3	3
Diglycolic Acid, Saturated	1	1	2
Diisobutyl Ketone			
Dimethylamine	2		3
Dimethylformamide	2		
Dinonyl Phthalate			

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Chemical	Temperature (°C)		
	20	40	60
Diethyl Phthalate	3	3	3
Dioxane			
Ethers	3	3	3
Ethyl Acetate	3	3	3
Ethyl Alcohol	1	1	2
Ethyl Benzene			
Ethyl Ether	3	3	3
Ethylene Chloride			
Ethylene Chlorohydrin	3	3	3
Ethylene Diamine	2		
Ethylene Glycol, 100%	1	1	1
Ethylene Glycol, 50%			
Ethylene Oxide			
Fatty Acids	1	1	1
Fatty Alcohol Sulfamate	1	1	2
Ferric Chloride	1		2
Ferric Chloride, Saturated	1	1	1
Ferric Nitrate, Saturated	1	1	1
Ferric Sulfate	1	1	1
Ferrous Chloride, Saturated	1	1	1
Ferrous Sulfate	1	1	1
Fluorine Gas, Dry 100%	2		3
Fluosilicic Acid, 30%	1	1	1
Formaldehyde	1		2

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Chemical	Temperature (°C)		
	20	40	60
Formamide			
Freon 12, 100%	1		
Fruit Juice, Pure	1	1	1
Furfuryl Alcohol			
Gasoline	1	1	2
Gelatin	1	1	1
Glucose	1	1	2
Glycerine	1	1	1
Glycine, Aqueous	1	1	1
Glycolic Acid, Saturated	1		
Heptane	1		2
N-Hexane	1		2
Hydrazine Hydrate	1		
Hydrobromic Acid, 50%	1	1	1
Hydrobromic Acid, 10%	1	1	2
Hydrobromic Acid, 25%	1		2
Hydrobromic Acid, 36%	1	1	2
Hydrobromic Acid, 37%	1	1	1
Hydrocyanic Acid	1	1	2
Hydrofluoric Acid, 10%	1		2
Hydrofluoric Acid, 60%	2		3
Hydrogen Peroxide, 30%	1	1	1
Hydrogen Sulfide, Dry	1		2
Hydroxylamine Sulfate	1	1	1

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Chemical	Temperature (°C)		
	20	40	60
Iodine			
Isobutane	1		
Isooctane	1		
Isopropyl Acetate	1		
Isopropyl Alcohol			2
Isopropyl Ether	2		3
Lactic Acid, 10%	1	2	
Lanolin	1	2	
Lead Acetate, Saturated	1	1	1
Linseed Oil	1	1	2
Liqueurs	1	1	
Magnesium Carbonate	1		1
Magnesium Chloride, Saturated	1	1	1
Magnesium Hydroxide	1	1	1
Magnesium Nitrate	1	1	1
Magnesium Salts	1	1	2
Malic Acid	1		
Mercuric Chloride, Saturated	1	1	1
Mercuric Cyanide, Saturated	1	1	1
Mercurous Nitrate, Saturated	1	1	1
Mercury	1	1	1
Mercury Salts	1	1	2
Methane	1		
Methyl Acetate			

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Chemical	Temperature (°C)		
	20	40	60
Methyl Alcohol	1	1	1
Methyl Amine	2		3
Methyl Bromide	3		
Methylene Chloride	3		3
Methylsulfuric Acid	1		2
Milk	1	1	1
Molasses	1	1	1
Morpholine			
Naphtha	2		3
Naphthalene			
Nickel Chloride, Saturated	1	1	1
Nickel Nitrate	1	1	1
Nickel Sulfate, Saturated	1	1	1
Nitric Acid, 100%			
Nitric Acid, 40%	1	1	1
Nitric Acid, 60%	1		2
Nitric Acid, 65%	2	2	
Nitrobenzene	3	3	3
Oleic Acid	1	1	1
Oleum			
Olive Oil	1	1	2
Oxygen Gas	1	1	1
Ozone	1	1	2
Palmitic Acid	1		

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Chemical	Temperature (°C)		
	20	40	60
Palmitic Acid, 10%	1	1	1
Palmitic Acid, 70%	1	1	1
Paraffin			2
Paraffin Emulsion	1	1	1
Perchloric Acid, 10%	1	1	2
Perchloric Acid, 70%	1		2
Perchloroethylene			
Petroleum	1		
Phenol, 90%	1	2	
Phenyl Hydrazine	3	3	3
Phosgene Gas	1	2	2
Phosgene Liquid			
Phosphoric Acid, 25%	1		2
Phosphoric Acid, 30%	1	1	2
Phosphoric Acid, 50%	1	1	1
Phosphoric Acid, 85%	1	1	1
Phosphorous Pentoxide	1	1	
Phosphorous Trichloride	3	3	3
Phosphorous Oxychloride			
Phosphorous Pentachloride			
Potassium Bicarbonate	1	1	2
Potassium Borate	1	1	2
Potassium Bromate	1	1	2
Potassium Bromide	1	1	2

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Chemical	Temperature (°C)		
	20	40	60
Potassium Carbonate	1	1	1
Potassium Chlorate	1	1	1
Potassium Chloride	1	1	1
Potassium Chromate	1	1	1
Potassium Cyanide	1	1	1
Potassium Ferricyanide	1	1	1
Potassium Fluoride			
Potassium Iodide	1	1	1
Potassium Nitrate	1	1	1
Potassium Perborate	1	1	1
Potassium Permanganate, Saturated	1	1	2
Potassium Permanganate, 10%	1	1	2
Potassium Persulfate	1	1	2
Propane	1		
1-Propanol	1	2	2
Propargyl Alcohol	1	1	1
Propionic Acid, 50%	1	1	2
Propyl Alcohol	1		2
Propylene Oxide	2		
Pyridine	3	3	3
Sea Water	1	1	1
Silicic Acid	1	1	1
Silicone Oil	1	1	3
Silver Cyanide	1	1	1

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Chemical	Temperature (°C)		
	20	40	60
Silver Nitrate	1		2
Soaps	1	1	2
Sodium Acetate, Saturated	1	1	1
Sodium Benzoate	1	1	2
Sodium Bicarbonate	1	1	1
Sodium Bichromate, Saturated	1	1	1
Sodium Bisulfate	1	1	2
Sodium Bisulfite	1	1	1
Sodium Bromide, Saturated	1	1	1
Sodium Chlorate, Saturated	1		2
Sodium Chloride	1	1	2
Sodium Chromate	1	1	2
Sodium Ferrocyanide, Saturated	1	1	1
Sodium Fluoride	1	1	1
Sodium Hypochlorite	1		2
Sodium Iodide	1	1	2
Sodium Nitrate, Saturated	1	1	1
Sodium Nitrite, Saturated	1		
Sodium Oxalate	1	1	2
Sodium Perborate	1	1	1
Sodium Phosphate	1	1	2
Sodium Sulfate, Saturated	1	1	1
Sodium Sulfide	1	1	2
Sodium Sulfite	1	1	1

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	20	40	60
Sodium Thiosulfate	1	1	2
Stannous Chloride, 15%	1	2	2
Stearic Acid, 100%	1	1	1
Sugar Syrup	1	1	2
Sulfur Dioxide Gas, Dry	1	1	1
Sulfur Dioxide Gas, Wet	2		3
Sulfur Dioxide Liquified			
Sulfuric Acid, 51% to 60%	1	1	1
Sulfuric Acid, 71% to 80%	1	1	1
Sulfuric Acid, 96%	1	1	2
Sulfuric Acid, 97%			
Sulfurous Acid	1	1	2
Tannic Acid	1		
Tartaric Acid	1	1	2
Tetrachloroethane	3	3	3
Tetraethyl Lead	1		2
Tetrahydrofuran	3	3	3
Thionyl Chloride	3		
Toluene	3	3	3
Transformer Oil	1		2
Tributyl Phosphate			
Trichloroacetic Acid	2		
Trichloroacetic Acid, 50%	1	2	3
Trichloroethylene	3	3	3

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Chemical	Temperature (°C)		
	20	40	60
Tricresyl Phosphate			
Triethanolamine	2		3
Triethylamine			
Trioctyl Phosphate			
Turpentine	1	2	
Urea	1	1	2
Urea, 30%			
Uric Acid	1		2
Urine	1	1	2
Vaseline	1		3
Vegetable Oil	1	2	
Vinegar	1	1	1
Vinyl Acetate	3	3	3
Vinyl Chloride			
Water, Deionised	1	1	1
Whiskey	1	1	1
Wines	1	1	1
Xylene			
Yeast	1	1	
Zinc Chloride	1	1	1
Zinc Nitrate	1	1	1
Zinc Salts	1	1	2
Zinc Sulfate	1	1	1

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IMPORTANT: The technical data given on this chart is for preliminary information purposes only and is published without guarantee.

The absence of a class indication signifies the absence of data for this particular material with respect to the specific chemical, temperature and concentration.