

Chemical resistance data

	Concentration Weight %	Duratron® CU60 PBI	Duratron® PI	Duratron® PAI	Duratron® U1000 PEI	Fluorosint® PTFE	Ketron® 1000 PEEK	Sultron® PSU	Techtron® 1000 PPS	Ertalyle® PET	Acetron® GP POM-C	Nylatron® PA6	Nylatron® PA66	Altron™ PC	TIVAR® UHMW-PE	Proteus® PP
Acetaldehyde Aq.	40	*	*	*	A	A	A	D	A	D	A	A	B	*	B	A
Acetamide Aq.	50	*	*	*	*	A	A	*	*	*	A	A	A	*	*	A
Acetic Acid Aq.	10	B	D	A	A	A	A	A	A	B	C	C	C	B	A	A
Acetone	100	A	A	A	C	A	A	D	A	B	A	A	A	D	A	A
Acrylonitrile	100	A	*	A	*	A	A	D	A	B	*	A	A	D	*	A
Alcohols, Aliphatic	100	*	*	A	A	A	A	A	A	A	A	B	B	A	A	A
Allyl Chloride	100	*	*	*	*	A	A	*	*	*	*	C	*	A	B	
Allyl Alcohol	100	*	*	A	*	A	A	*	A	A	*	B	*	B	A	B
Aluminum Chloride Aq.	10	*	B	A	*	A	A	*	A	A	*	A	A	A	A	A
Aluminum Sulfate Aq.	10	*	B	A	*	A	A	A	A	*	A	A	A	A	A	A
Ammonia Aq.	10	C	D	B	*	A	A	*	A	C	A	A	A	*	A	A
Ammonia Gas	100	C	D	C	*	A	A	B	*	A	D	B	C	D	*	A
Ammonium Carbonate Aq.	10	*	*	A	*	A	A	*	A	A	*	A	A	B	A	A
Ammonium Chloride Aq.	10	*	*	A	*	A	A	A	A	A	A	B	D	A	A	A
Ammonium Chloride Aq.	37	*	*	A	*	A	A	*	A	A	A	B	D	A	A	A
Amyl Acetate	100	*	*	A	B	A	A	D	A	*	A	D	B	D	A	D
Amyl Alcohol	100	*	*	A	*	A	A	A	A	*	*	A	*	B	A	A
Aniline	100	*	D	A	*	A	A	*	A	A	B	C	C	C	A	A
Antimony Trichloride Aq.	10	*	*	*	*	A	A	D	*	*	*	D	D	A	A	A
Barium Chloride Aq.	10	*	*	A	*	A	A	A	A	A	A	B	D	A	A	A
Barium Sulfate Aq.	10	*	*	A	*	A	A	*	*	*	A	A	*	*	A	B
Barium Sulfide Aq.	10	*	*	A	*	A	A	*	*	*	*	A	*	A	A	A
Benzaldehyde	100	*	*	A	D	A	A	*	B	A	A	C	A	D	A	A
Benzene	100	*	A	A	D	A	A	D	A	A	A	A	A	D	C	C
Benzenesulfonic Acid	100	*	*	D	*	A	D	*	A	*	C	*	D	D	A	B
Benzyl Alcohol	100	*	*	A	*	A	A	*	A	A	A	D	C	D	A	A
Benzoic Acid Aq.	SAT	*	B	*	*	A	A	*	A	A	*	D	C	D	A	A
Beverages Aq. Alcoholic	100	A	*	A	A	A	A	A	A	A	A	B	B	A	A	A
Beverages Aq. Carbonated	100	A	*	A	A	A	A	A	A	A	A	B	B	A	A	A
Bitumen	100	*	*	*	*	A	A	*	*	*	A	B	B	*	*	*
Bleaching Lye	10	*	*	A	*	A	A	*	*	*	C	B	C	*	A	A
Bleaching Lye	100	*	*	*	*	A	A	*	*	*	C	B	C	*	A	A
Boric Acid Aq.	10	*	B	*	*	A	A	*	A	A	*	D	D	A	A	A
Boron Trifluoride	100	*	*	C	*	*	B	*	*	*	D	D	D	*	*	*
Bromine Aq.	30	*	*	A	*	A	B	A	A	*	D	D	D	D	D	D
Bromine Liq.	100	*	*	B	*	*	D	*	A	*	D	D	D	D	D	D
Butanol	100	A	A	A	A	A	A	B	A	B	A	B	B	A	A	A
Butyl Acetate	100	*	*	A	B	A	A	D	A	A	A	B	A	D	A	B

A = No attack, possibly slight absorption, Negligible effect on mechanical properties | B = Slight attack by absorption, some swelling and a small reduction in mechanical properties likely | C = Moderate attack or appreciable absorption; material will have limited life | D = Material will decompose or dissolve in a short time | * = No data available | Aq. = Aqueous Solution | SAT = Saturated Aqueous Solution | CONC = Concentrated Aqueous Solution | NOTE: Where aqueous solutions are shown, the concentration as a percentage of weight is given.

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	Concentration Weight %	Duratron® CU60 PBI	Duratron® PI	Duratron® PAI	Duratron® U1000 PEI	Fluorosint® PTFE	Ketron® 1000 PEEK	Sultrion® PPSU	Techtron® 1000 PPS	Ertalyte® PET	Acetron® GP POM-C	Nylatron® PA6	Nylatron® PA66	Altrion™ PC	TIVAR® UHMW-PE	Proteus® PP
Butyl Phthalate	100	*	*	A	*	A	A	*	B	*	*	*	D	*	A	B
Butylene Glycol	100	A	*	*	A	A	A	*	A	B	A	B	A	B	*	*
Butylamine	100	*	*	A	D	A	A	*	B	*	D	*	A	D	*	B
Butyric Acid Aq.	20	*	B	*	*	A	A	*	A	*	A	B	D	D	A	A
Butyric Acid	CONC	*	B	*	*	A	A	*	A	*	*	B	D	D	A	A
Butyrolactone	100	*	*	A	*	A	A	*	*	B	A	A	*	C	*	*
Calcium Chloride Aq.	10	*	B	A	*	A	A	A	A	A	A	A	D	A	A	A
Calcium Chloride (in Alcohol)	20	*	*	*	*	A	A	*	A	*	A	D	D	*	A	A
Calcium Hypochlorite	100	*	*	A	*	A	A	B	A	A	D	D	D	A	A	A
Camphor	100	*	*	*	*	A	A	*	A	*	A	A	A	*	*	C
Carbon Disulphide	100	*	A	*	*	A	A	*	A	*	A	A	A	D	D	D
Carbon Tetrachloride	100	A	*	A	A	A	A	A	A	A	A	A	A	D	C	D
Carbonic Acid Aq.	10	*	A	*	*	A	A	*	A	A	A	*	A	*	A	A
Carnalite Aq.	10	*	*	*	*	A	A	*	*	*	*	A	*	*	*	*
Castor Oil	100	*	*	*	*	A	A	*	*	A	A	*	A	A	A	A
Catechol	100	*	*	*	*	*	A	*	*	*	*	C	*	*	*	*
Chloroacetic Acid Aq.	10	*	C	*	*	A	A	*	A	*	D	C	D	*	D	A
Chloral Hydrate	100	*	*	*	*	A	A	*	*	*	*	D	D	*	A	B
Chlorine Aq.	10	D	*	D	D	A	D	D	B	D	D	D	D	D	B	D
Chlorine Dioxide	100	*	*	*	*	D	D	D	*	*	D	D	D	D	B	C
Chlorine Gas	100	A	A	*	*	A	A	*	*	*	D	D	*	B	B	C
Chlorobenzene	100	*	B	A	*	A	A	D	A	A	A	A	A	D	B	D
Chloroform	100	A	*	A	D	A	A	D	A	D	C	C	A	D	D	C
Chlorosulfonic Acid Aq.	10	*	*	*	*	A	D	*	D	*	D	C	D	*	*	A
Chrome Alum Aq.	10	*	D	*	*	A	A	*	*	*	*	*	A	A	A	A
Chromic Acid Aq.	1	*	A	A	A	A	A	A	A	A	B	C	D	A	A	A
Citric Acid Aq.	10	A	B	A	A	A	A	A	A	A	A	B	B	A	A	A
Citric Acid Aq.	SAT	*	D	B	*	A	A	A	A	A	*	C	C	*	*	*
Coconut Oil	100	*	*	*	*	A	A	*	A	*	*	A	A	*	*	A
Creosote	100	*	*	*	*	A	A	*	*	*	*	*	A	D	*	*
Cresols	100	*	C	*	*	A	A	D	A	*	*	D	D	D	*	D
Cresylic Acid	100	*	*	*	*	A	A	*	*	*	*	*	D	*	A	D
Cupric Chloride Aq.	10	*	*	B	*	A	A	A	A	A	A	*	D	A	*	A
Cupric Sulfate Aq.	0.5	*	*	B	*	A	A	*	A	A	A	B	A	A	*	*
Cupric Sulfate Aq.	10	*	*	B	*	A	A	*	A	*	*	B	B	*	*	*
Cupric Sulfate Aq.	SAT	*	*	B	*	A	A	*	A	*	*	B	B	*	*	*
Cyclohexane	100	A	*	A	A	A	A	B	A	A	A	A	A	B	A	C

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Cyclohexanol	100	A	*	A	A	A	A	A	A	A	A	B	B	C	A	B	
Cyclohexanone	100	A	*	A	*	A	A	D	A	A	A	A	A	D	A	D	
Decalin	100	A	*	*	A	A	A	A	A	B	B	A	A	A	*	D	
Detergents, Organic	100	A	*	A	A	A	A	A	A	A	A	A	A	A	A	A	
Dibutylphthalate	100	*	*	A	B	A	A	*	*	*	*	A	A	D	A	A	
Dichlorodifluoro Methane	100	A	*	*	D	A	A	D	B	A	A	A	A	D	*	A	
Dichloroethylene	100	A	*	A	D	A	A	D	*	B	B	A	A	D	D	A	
Diethyleneglycol Aq.	90	*	*	A	*	A	A	B	*	A	A	B	A	A	*	A	
Diesel Oil	100	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Dimethyl Carbinol	100	*	*	*	*	A	A	*	*	*	*	B	A	*	*	*	
Dimethyl Aniline	100	*	*	A	D	A	A	D	A	B	B	*	A	D	*	*	
Dimethyl Formamide	100	*	D	*	D	A	A	D	A	A	A	A	A	D	A	A	
Dioxane	100	*	*	A	*	A	A	D	A	A	A	A	A	D	*	C	
Edible Oils	100	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A	
Ethanol, Denatured	96	A	*	A	A	A	A	A	A	A	A	B	B	A	*	A	
Ether, Diethyl	100	A	*	A	A	A	A	A	A	A	A	A	A	A	A	D	
Ethyl Acetate	100	*	A	A	B	A	A	D	A	A	A	A	A	D	A	A	
Ethyl Butyrate	100	*	*	A	B	A	A	D	*	*	*	*	A	D	*	B	
Ethyl Chloride	100	*	A	A	*	A	A	*	A	*	*	A	*	*	*	D	
Ethylene Chlorohydrin	100	*	*	*	*	A	B	*	A	D	D	D	D	D	*	D	
Ethylene Chloride	100	A	A	A	C	A	A	C	A	C	C	B	B	C	B	C	
Ethylene Diamine	100	*	*	D	C	A	A	B	D	*	*	A	B	C	A	A	
Ethylene Dichloride	100	A	A	A	D	A	A	*	B	D	D	D	B	D	C	B	
Ethylene Glycol Aq.	96	A	B	A	D	A	A	A	A	A	A	B	A	B	A	A	
Ethylene Propionate	100	*	*	A	*	A	A	*	*	*	*	*	A	*	*	*	
Ferric Chloride Aq.	5	*	A	A	*	A	A	A	A	A	A	B	B	A	A	A	
Ferric Chloride Aq.	10	*	B	A	*	A	B	A	A	*	*	*	B	A	A	A	
Ferric Chloride Aq.	SAT	*	B	A	*	A	B	*	A	*	*	C	C	*	A	A	
Ferrous Chloride Aq.	10	*	*	A	*	A	A	*	A	*	*	C	B	*	A	A	
Fluorine	100	*	*	C	*	C	D	*	*	C	C	D	D	*	D	D	
Fluosilicic Acid Aq.	10	*	*	C	*	B	A	*	A	*	*	C	D	A	A	A	
Fluothane	100	*	*	*	*	A	A	*	*	*	*	A	A	*	*	*	
Freon 12 (Arcton 12)	100	A	A	*	*	A	A	A	B	A	A	A	A	D	*	C	
Formaldehyde Aq.	10	*	B	A	A	A	A	C	A	A	A	B	A	A	A	A	
Formic Acid Aq.	3	D	A	C	A	A	B	*	A	B	B	D	D	A	A	A	
Formic Acid Aq.	10	D	A	C	A	A	B	D	A	C	C	D	D	B	A	C	
Fruit Juices	CONC	A	A	A	*	A	A	A	A	A	A	B	A	A	A	A	
Furfural	100	*	*	B	*	A	A	D	A	*	*	B	A	*	A	D	

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Gasoline	100	A	A	A	B	A	A	B	A	A	A	A	A	D	A	C
Glycerine	100	*	*	A	*	A	A	B	A	A	A	B	A	A	A	A
Heptane	100	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B
Hexane	100	A	*	A	A	A	A	B	A	A	A	A	A	A	A	B
Hydrobromic Acid Aq.	10	*	B	A	*	A	D	B	B	*	*	C	D	*	A	A
Hydrochloric Acid Aq.	0.4	B	B	A	A	A	A	A	A	A	A	B	B	A	A	A
Hydrochloric Acid Aq.	2	D	C	A	A	A	A	A	A	B	B	D	C	A	A	A
Hydrochloric Acid Aq.	10	D	C	A	A	A	A	A	B	C	C	D	D	A	A	A
Hydrofluoric Acid Aq.	4	*	B	*	*	C	D	A	B	B	B	C	D	A	A	A
Hydrogenated Vegetable Oils	100	A	A	A	*	A	A	*	A	A	A	A	A	*	A	A
Hydrogen Peroxide Aq.	0.5	*	*	*	A	A	A	A	A	A	A	*	D	A	A	A
Hydrogen Peroxide Aq.	1	A	*	*	A	A	A	A	A	A	A	C	D	A	A	A
Hydrogen Peroxide Aq.	3	A	*	*	A	A	A	A	A	A	A	C	D	A	A	A
Hydrogen Sulfide Aq.	SAT	*	B	*	*	A	A	*	A	C	C	C	C	A	A	A
Hydroquinone	100	*	*	*	*	A	A	*	*	*	*	B	B	*	A	A
Iodine (in Alcohol)	100	*	*	*	*	A	A	*	*	*	*	D	D	D	A	A
Iodine (in Pt. Iodine) Aq.	3	*	*	*	*	A	A	*	*	*	*	C	D	D	A	A
Iso octane	100	A	*	A	B	A	A	B	A	A	A	A	A	A	A	A
Isopropyl alcohol	100	A	A	A	A	A	A	B	A	A	A	B	B	A	A	A
Isopropyl Ether	100	A	*	A	A	A	A	C	A	A	A	A	A	A	A	B
Lactic Acid Aq.	10	*	A	A	*	A	A	A	A	A	A	A	A	A	A	A
Lactic Acid Aq.	90	*	B	A	*	A	A	*	A	*	*	D	C	*	A	A
Lead Acetate Aq.	10	*	*	A	*	A	A	*	A	*	*	B	B	*	A	A
Lead Stearate	100	*	*	*	*	A	A	*	*	*	*	A	A	*	*	*
Linseed Oil	100	*	*	A	*	A	A	A	A	A	A	A	A	A	A	A
Lithium Bromide Aq.	50	*	*	*	*	A	A	*	*	A	A	D	D	*	*	*
Lubricating Oils (Petroleum)	-	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B
Magnesium Chloride Aq.	10	*	*	A	*	A	A	A	A	A	A	A	A	A	*	A
Magnesium Hydroxide Aq.	10	*	*	D	*	A	A	*	A	B	A	A	A	*	A	A
Magnesium Sulfite Aq.	10	*	*	A	*	A	A	*	A	*	A	A	A	*	A	A
Maleic Acid Aq.	CONC	*	*	*	*	A	A	*	*	*	*	C	*	*	A	A
Malonic Acid Aq.	CONC	*	*	*	*	A	A	B	*	*	*	C	*	*	*	*
Manganese Sulfate Aq.	10	*	*	*	*	A	A	*	*	A	A	A	A	A	*	A
Mercuric Chloride Aq.	6	*	*	*	*	A	A	*	*	*	B	D	C	A	*	A
Mercury	100	*	*	*	*	A	A	*	A	A	A	A	A	A	A	A
Methanol	100	A	*	*	A	A	A	B	A	A	A	B	A	B	A	A
Methyl Acetate	100	*	-	A	B	A	A	*	A	A	A	A	A	D	A	B

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Methyl Ethyl Ketone	100	A	-	A	D	B	A	B	B	A	B	A	A	D	B	A
Methylpyrrolidone	100	*	C	*	*	A	A	D	A	*	*	A	A	*	*	*
Methylene Chloride	100	C	C	A	C	A	A	D	A	D	C	B	B	D	B	C
Methy Phenyl Ether	100	*	*	A	*	A	A	*	A	A	*	*	A	*	A	*
Milk	100	A	*	A	A	A	A	A	A	A	A	A	A	A	A	A
Mineral Oils	100	A	A	A	A	A	A	A	A	*	A	A	A	A	A	A
Naphthalene	100	-	*	*	D	A	A	D	A	A	A	A	A	D	A	A
Nickel Sulfate Aq.	10	-	*	*	*	A	A	*	A	*	*	A	A	A	A	A
Nicotine	100	-	*	*	*	*	A	*	*	*	*	D	D	*	*	A
Nitric Acid Aq.	0.1	B	*	A	A	A	A	A	A	B	D	C	C	A	A	A
Nitric Acid Aq.	10	C	D	A	A	A	A	C	B	C	D	D	D	A	A	A
Nitrobenzene	100	*	C	A	D	A	A	D	A	D	B	B	C	D	A	A
Nitromethane	100	*	*	A	*	A	A	D	A	B	*	B	A	A	A	A
Oleic Acid	100	*	*	*	*	A	A	A	A	A	A	A	A	A	A	B
Oxalic Acid Aq.	10	*	*	*	*	A	A	A	A	*	C	B	C	A	A	A
Ozone	100	*	A	C	*	A	A	A	C	C	C	C	C	D	C	D
Paraffin	100	A	*	A	A	A	A	A	A	A	A	A	A	A	A	A
Perchloroethylene	100	A	A	A	C	A	A	*	A	A	B	B	B	C	B	C
Perchloric Acid Aq.	10	*	*	*	*	A	A	*	*	A	C	C	D	*	A	C
Petroleum Ether	100	-	*	A	*	A	A	*	A	*	A	A	A	A	B	A
Phenol Aq.	6	A	*	*	*	A	B	*	*	A	D	D	D	D	B	B
Phenol Aq.	75	A	*	*	D	A	D	D	*	C	D	D	D	D	B	B
Phenol (Molten)	100	-	*	*	D	A	B	D	*	C	D	D	D	D	B	C
Phosphoric Acid Aq.	0.3	B	*	A	A	A	A	A	A	A	C	B	*	A	A	A
Phosphoric Acid Aq.	3	C	*	A	A	A	A	A	A	A	C	C	D	A	A	A
Phosphoric Acid Aq.	10	C	*	A	A	A	A	A	A	B	D	D	D	A	A	A
Phthalic Acid Aq.	SAT	*	*	*	*	A	A	*	*	*	A	B	B	*	A	C
Phthalic Dioctyl	100	*	*	*	*	A	A	*	A	*	*	A	A	*	*	*
Potassium Acetate Aq.	50	*	*	A	*	A	A	*	*	*	A	A	A	*	A	A
Potassium Bicarbonate Aq.	60	*	*	A	*	A	A	*	A	A	A	A	A	*	A	A
Potassium Bromide Aq.	10	*	*	A	*	A	A	*	A	A	A	A	A	A	A	A
Potassium Carbonate Aq.	60	*	*	A	A	A	A	*	A	A	A	A	A	*	A	A
Potassium Chloride Aq.	90	*	*	A	*	A	A	*	A	A	A	A	A	A	A	A
Potassium Dichromate Aq.	5	*	*	A	*	A	A	*	A	A	A	B	C	A	A	A
Potassium Ferricyanide Aq.	30	*	*	*	*	A	A	*	*	A	*	B	A	*	A	A
Potassium Ferrocyanide Aq.	30	*	*	*	*	A	A	*	*	*	*	B	A	*	A	A

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Chemical resistance data

	Concentration Weight %	Duratron® CU60 PBI	Duratron® PI	Duratron® PAI	Duratron® U1000 PEI	Fluorosint® PTFE	Ketron® 1000 PEEK	Sultrion® PPSU	Techtron® 1000 PPS	Ertalyle® PET	Acetron® GP POM-C	Nylatron® PA6	Nylatron® PA66	Altron™ PC	TIVAR® UHMW-PE	Proteus® PP
Potassium Hydroxide Aq.	10	*	D	D	A	B	A	A	A	C	A	A	C	C	A	A
Potassium Hydroxide Aq.	50	*	*	D	*	C	A	B	A	C	D	A	C	D	A	A
Potassium Nitrate Aq.	10	*	*	*	*	A	A	A	A	A	B	A	A	A	A	A
Potassium Permanganate Aq.	1	*	*	A	*	A	A	A	A	A	A	C	D	A	A	B
Potassium Sulfite Aq.	CONC	*	*	A	*	A	A	*	A	*	*	A	A	*	A	A
Potassium Sulfite Aq.	90	*	*	A	*	A	A	*	*	*	*	*	A	*	A	A
Propane Gas	100	A	*	*	*	A	A	*	A	A	A	A	A	A	A	A
Pyridine	100	*	A	D	*	A	A	D	*	*	B	A	A	D	A	A
Resorcinol	100	*	*	*	*	A	A	*	*	*	*	D	D	*	*	A
Salicylic Acid	100	*	*	*	*	A	A	*	*	A	D	A	A	*	A	A
Silicone Fluids	100	A	B	A	*	A	A	*	A	A	A	A	A	A	A	A
Silver Nitrate	100	*	*	A	*	A	A	*	A	A	A	A	A	A	A	B
Soap Solutions	100	A	*	A	A	A	A	A	A	A	A	A	A	A	B	A
Sodium (Molten)	100	*	*	*	*	B	D	*	*	*	C	*	*	*	*	*
Sodium Acetate Aq.	60	*	*	A	*	A	A	*	A	A	A	B	A	*	A	A
Sodium Benzoate Aq.	10	*	*	A	*	A	A	*	*	A	A	*	A	*	A	A
Sodium Bicarbonate Aq.	50	*	*	A	*	A	A	*	A	A	A	A	A	A	A	A
Sodium Bisulphite Aq.	10	*	*	A	*	A	A	*	A	A	D	A	A	A	A	A
Sodium Bromide Aq.	10	*	*	A	*	A	A	*	A	A	A	B	A	*	*	A
Sodium Carbonate Aq.	20	A	*	A	*	A	A	*	A	A	A	B	A	*	A	A
Sodium Carbonate Aq.	50	*	*	A	*	A	A	*	A	*	A	*	A	*	A	A
Sodium Chlorate Aq.	10	*	*	A	*	A	A	*	A	*	A	B	A	A	A	A
Sodium Chloride Aq.	10	*	*	A	*	A	A	A	A	A	A	B	A	A	A	A
Sodium Chloride Aq.	90	*	*	A	*	A	A	*	A	A	A	B	A	A	A	A
Sodium Cyanide Aq.	10	*	*	*	*	A	A	*	A	*	A	*	A	A	A	A
Sodium Hydroxide Aq.	10	B	*	D	A	B	A	A	A	C	D	D	C	C	A	B
Sodium Hydroxide Aq.	50	C	*	D	D	C	A	C	B	C	D	D	D	D	A	B
Sodium Hypochlorite 15% Cl (Chlorine Bleach)	100	B	*	A	*	A	A	A	A	A	D	C	D	A	A	B
Sodium Nitrate Aq.	50	*	*	*	*	A	A	*	A	A	A	A	A	C	A	A
Sodium Perborate Aq.	10	*	*	*	*	A	A	*	*	*	A	*	B	*	A	A
Sodium Phosphate Aq.	90	*	*	*	*	A	A	*	*	*	*	*	A	*	A	A
Sodium Silicate	100	*	*	*	*	A	A	B	A	A	*	A	A	A	A	A
Sodium Sulfate Aq.	90	*	*	A	*	A	A	*	A	A	*	A	A	A	A	A
Sodium Sulfide Aq.	90	*	*	A	*	A	A	*	A	B	*	*	A	*	A	A
Sodium Thiosulfate Aq.	10	*	*	*	*	A	A	A	A	A	A	A	A	A	A	A
Stannic Chloride Aq.	10	A	*	*	A	A	A	A	A	*	D	*	D	A	*	A

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	Concentration Weight %	Duratron® CU60 PBI	Duratron® PI	Duratron® PAI	Duratron® U1000 PEI	Fluorosint® PTFE	Ketron® 1000 PEEK	Sultrion® PPSU	Techtron® 1000 PPS	Ertalyte® PET	Acetron® GP POM-C	Nylatron® PA6	Nylatron® PA66	Altron™ PC	TIVAR® UHMW-PE	Proteus® PP
Stannic Sulfate Aq.	10	*	*	*	*	A	A	*	A	*	*	C	D	*	*	*
Stearic Acid	100	*	*	*	*	A	A	*	*	*	A	A	A	*	A	B
Styrene (Monomer)	100	*	*	*	*	A	A	*	A	C	A	A	A	D	B	B
Sulfur	100	*	*	*	*	A	A	*	*	A	A	A	A	A	A	A
Sulfur Dioxide (Dry Gas)	100	*	*	A	*	A	A	*	A	B	D	A	C	A	A	B
Sulfuric Acid Aq.	2	B	B	A	A	A	A	A	A	A	D	C	C	A	A	A
Sulfuric Acid Aq.	5	B	B	A	A	A	A	A	A	A	D	D	D	A	A	A
Sulfuric Acid Conc.	96	*	C	*	D	A	D	D	B	C	D	D	D	D	B	B
Sulfurous Acid Aq.	10	B	*	*	A	A	A	A	A	*	D	*	A	A	A	A
Tallow	100	A	*	A	A	A	A	A	A	*	A	A	A	A	A	A
Tar	100	*	*	A	*	A	A	*	A	*	A	B	B	*	A	A
Tartaric Acid Aq.	10	*	*	*	*	A	A	*	A	*	A	A	B	A	A	A
Tetrachlorethylene	100	*	*	*	A	B	A	D	*	B	A	C	A	D	B	C
Tetrahydrofuran	100	A	*	A	*	A	A	*	A	A	B	A	A	D	B	D
Tetralin	100	*	*	*	*	A	A	*	*	A	A	A	A	*	*	C
Thionyl Chloride	100	*	*	*	*	A	A	*	*	*	B	C	D	*	C	C
Thiophene	100	*	*	*	*	A	A	*	*	*	*	*	A	D	B	B
Toluene	100	A	*	A	D	A	A	D	A	A	B	A	A	D	B	B
Transformer Oil	100	*	A	A	*	A	A	A	A	*	A	A	A	A	B	B
Trichlorethylene	100	*	*	A	D	A	A	D	A	B	D	B	B	D	D	D
Triethanolamine	100	*	*	D	D	A	A	C	A	B	A	A	A	D	A	D
Turpentine	100	*	*	A	*	A	A	C	A	*	A	A	A	B	B	C
Trisodium Phosphate Aq.	95	*	*	*	*	A	A	*	A	A	A	B	*	A	A	A
Urea	100	*	*	*	*	A	A	*	A	A	A	A	A	A	A	A
Vaseline	100	A	*	A	A	A	A	A	A	A	A	A	A	A	A	A
Vegetable Oils	100	A	*	A	A	A	A	A	A	A	A	A	A	A	A	B
Vinegar	100	A	*	A	A	A	A	*	A	A	B	C	C	A	A	A
Vinyl Chloride	100	*	*	*	*	A	A	*	A	*	*	A	A	*	A	A
Water	100	A	*	A	A	A	A	A	A	A	A	A	A	A	A	A
Water (Mildly Chlorinated)	<10	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A
Wax (Molten)	100	A	*	A	A	A	A	A	A	A	A	A	A	A	A	B
White Spirit	100	*	*	*	*	A	A	*	A	*	A	A	A	*	A	A
Wines & Spirits	100	A	*	A	A	A	A	*	A	A	A	B	B	A	A	A
Xylene	100	A	*	A	C	A	A	D	A	A	A	A	A	D	C	B
Xylenol	100	A	*	A	B	A	A	D	*	*	A	D	D	D	*	*
Zinc Chloride Aq.	10	*	*	*	A	A	A	A	A	A	D	B	C	A	A	A
Zinc Oxide	100	*	*	*	*	A	A	*	A	*	C	A	A	*	*	A
Zinc Sulfate Aq.	10	*	*	*	*	A	A	*	A	*	C	*	A	A	A	A

The previous chemicals and fluids are known to attack or be compatible with the materials given. Chemical effects are at room temperature. Use this chart as a general guide only. Contact the Advanced Materials division of MCG for further information. The chemical resistance of plastics can be difficult to predict. It is dependent upon temperature, time of exposure, chemical concentration, and stress on the material. Increases in any of these factors may result in reduced chemical inertness. This table is intended as a guide only, and not intended as an alternative to actual testing. The MCG Advanced Materials division recommends actual testing which represents the only method for evaluating suitability for use.