

# Chemical Resistance Chart

This information is believed to be accurate but must be verified by the user for each product and application. Materials may vary by manufacturer.

## Legend:

- A = No Attack, possibly slight absorption. Negligible effect on mechanical properties.
- B = Slight attack by absorption. Some swelling and a small reduction in mechanical likely.
- C = Moderate attack of appreciable absorption. Material will have limited life.
- D = Material will decompose or dissolve in a short period of time.

Aq. = Aqueous Solution

CONC = Concentrated Aqueous Solution

SAT = Saturated Aqueous Solution

\* = No data available

Where Aqueous Solutions are Shown the concentration as a weight % is given.

	ABS	Acetal	Acrylic	CAB	CPVC	ECTFE (Halar®)	Fluorosint®	HDPE	Nylon® Type 6/6	PEEK	PET	Polycarbonate	Polypropylene	Polysulfone	PPS	PVC, Type I	PVC, Type II	PVDF	PTFE	Tecator®Torlon™	UHMW
<b>Alphabetical Listing of Materials</b>																					
Acetaldehyde Aq.	D	A	D	*	D	*	A	C	B	A	A	*	C	*	A	D	D	D	A	A	A
Acetic Acid Aq.	*	B	B	C	A	A	A	*	C	A	B	D	*	A	A	A	A	B	A	A	A
Acetone	D	B	D	*	D	A	A	A	A	B	B	C	A	B	A	D	D	D	A	*	*
Alcohols, Aliphatic	*	A	D	*	*	A	A	*	B	A	A	*	*	*	A	*	*	A	A	A	A
Aluminum Chloride Aq.	*	*	*	A	A	*	A	B	*	A	A	A	A	*	A	A	A	A	A	A	A
Aluminum Sulphate Aq.	*	*	*	A	A	A	A	A	*	A	*	A	A	*	A	A	A	A	A	A	A
Ammonia Gas	*	*	*	*	A	A	A	A	C	A	A	*	A	*	*	A	A	D	A	*	*
Ammonium Carbonate Aq.	*	*	*	*	A	A	A	A	A	A	A	D	A	*	A	A	A	A	A	*	*
Ammonium Chloride Aq.	*	*	*	A	A	A	A	A	A	A	A	C	A	*	A	A	A	A	A	A	A
Amyl Acetate	D	*	D	*	*	*	A	D	A	A	*	*	D	*	A	D	D	B	A	A	A
Anillne	*	A	D	*	D	A	A	A	C	A	A	*	C	*	A	D	D	C	A	A	A
Antimony Trichloride Aq.	*	*	A	*	A	A	A	A	C	A	*	*	A	*	*	A	A	*	A	*	*
Barlium Chloride Aq.	*	*	A	*	A	A	A	A	A	A	*	*	A	*	A	A	A	A	A	A	A
Barlium Sulphate Aq.	*	*	*	*	A	A	A	A	*	A	*	*	A	*	*	A	A	*	A	*	*
Benzene	D	A	D	D	D	A	A	D	A	A	A	D	D	D	A	D	D	C	A	*	*
Benzene Sulphonic Acid	*	*	*	*	*	A	A	A	D	A	*	*	*	*	A	*	*	B	A	C	C
Bleaching Lye	C	*	*	*	A	A	A	B	C	A	*	*	B	*	*	A	A	A	A	A	A
Boric Acid Aq.	*	*	*	*	A	A	A	A	A	A	A	*	A	*	A	A	A	A	A	*	*
Boron Trifluoride	*	*	*	*	A	*	A	A	D	*	*	*	A	*	*	A	A	A	*	*	*
Bromine Aq.	*	*	*	*	D	A	*	D	D	B	*	*	D	*	A	A	D	A	*	A	A
Butanol	*	*	*	*	A	*	A	A	B	A	B	*	*	C	A	A	D	*	A	A	A

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Butyric Acid Aq.	*	*	C	*	*	*	A	D	B	A	*	*	D	*	A	*	*	A	A	*	*
Butyric Acid	D	*	D	*	*	*	A	D	C	A	*	*	D	*	A	A	D	A	A	*	*
Calcium Hypochlorite	*	*	*	C	*	A	A	A	D	A	A	C	A	*	A	A	A	A	A	*	*
Camphor	*	*	*	*	*	*	A	*	A	A	*	*	*	*	A	*	*	*	A	*	*
Carbon Tetrachloride	D	A	*	C	C	A	A	D	A	A	A	*	D	A	A	C	D	A	A	A	A
Chloral Hydrate	*	*	*	*	A	*	A	D	D	A	*	*	D	*	*	A	A	A	A	*	*
Chlorine Aq.	*	*	*	*	A	*	A	C	D	A	*	*	B	D	*	A	A	B	A	*	*
Chloroform	D	*	*	D	D	A	A	C	D	A	D	D	D	D	A	D	D	B	A	A	A
Chlorosulphonic Acid Aq.	*	*	D	*	*	A	A	D	D	A	*	*	C	*	D	C	C	D	A	*	*
Chrome Alum Aq.	*	*	*	*	*	*	A	*	A	A	*	*	*	*	*	A	A	A	A	*	*
Chromic Acid Aq.	*	*	D	A	A	A	A	A	C	A	A	C	A	D	B	A	D	B	A	A	A
Citric Acid Aq.	B	*	C	B	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	*	*
Creosote	*	*	*	*	*	*	A	*	A	A	*	*	*	*	*	*	*	A	A	*	*
Cresylic Acid	*	*	*	*	A	A	A	D	D	A	*	*	D	*	*	A	C	A	A	*	*
Cyclohexanol	*	*	*	*	D	A	A	D	B	A	A	*	D	*	A	D	D	A	A	A	A
Cyclohexanone	*	*	*	D	D	A	A	D	A	A	A	*	D	D	*	D	D	A	A	A	A
Detergents, Organic	*	*	*	*	A	A	A	*	A	A	A	*	*	*	A	A	A	*	A	*	A
Dibutylphthalate	*	*	*	*	*	*	A	*	A	A	*	*	*	*	*	*	*	D	A	A	A
Diesel Oil	*	*	A	*	*	A	A	*	A	A	A	*	*	*	A	*	*	*	A	A	A
Dioxan	*	A	*	*	*	A	A	*	A	A	A	*	*	*	*	*	*	*	A	A	A
Edible Oils	*	A	*	*	*	*	A	*	A	A	A	*	*	*	A	*	*	A	A	A	A
Ether, Diethyl	*	A	*	*	*	*	A	*	A	A	A	*	*	*	A	*	*	*	A	A	A
Ethyl Acetate	D	*	D	*	*	A	A	C	A	A	*	D	A	*	A	D	D	D	A	A	A
Ethylene Dichloride	D	*	*	*	D	A	A	D	B	A	A	*	D	*	A	D	D	A	A	A	*
Ethylene Glycol Aq.	*	*	A	D	A	A	A	A	B	A	*	C	A	A	A	A	A	A	A	A	A
Ferrous Chloride Aq.	*	*	A	*	A	A	A	*	C	A	*	*	*	*	A	A	A	A	A	*	*
Fluorine	*	*	*	*	A	A	C	C	D	D	*	*	C	*	*	A	A	A	C	*	C
Fluosilicic Acid Aq.	*	*	*	A	*	A	*	A	D	*	*	*	A	*	A	*	*	A	*	*	A
Freon 12 (Arcton 12)	*	*	*	B	A	A	A	A	A	A	A	A	A	*	B	A	A	*	A	*	*
Formaldehyde Aq.	*	A	A	A	A	A	A	A	B	A	A	C	A	A	A	A	B	A	A	A	A
Formic Acid Aq.	*	D	D	*	A	A	A	*	B	B	B	A	*	*	A	A	A	A	A	D	A
Fruit Juices	A	*	*	*	A	A	A	A	B	A	A	C	A	*	A	A	A	A	A	A	A
Glycerine	A	*	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Heptane	*	A	*	*	*	A	A	*	A	A	A	C	*	A	A	A	A	A	A	A	A
Hydrobromic Acid Aq.	A	*	*	*	*	A	A	*	D	D	*	*	C	A	A	A	A	A	A	*	A
Hydrochloric Acid Aq.	*	*	A	B	A	A	A	A	*	A	A	A	A	A	A	A	A	A	A	*	A
Hydrofluoric Acid Aq	*	D	C	C	*	A	A	B	C	D	B	B	A	B	D	A	A	A	*	A	A
Hydrogenated Vegetable Oils	*	*	*	*	*	*	A	*	A	A	A	*	*	*	A	*	*	A	A	A	A
Hydrogen Peroxide Aq.	*	*	*	A	*	A	A	A	C	A	A	A	A	A	A	A	A	B	A	*	A

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Hydrogen Peroxide Aq.	*	*	*	*	*	A	A	*	*	A	A	A	*	A	A	*	*	B	A	*	A
Hydrogen Peroxide Aq.	*	D	*	*	*	A	A	*	D	A	A	A	*	A	A	*	*	B	A	*	A
Hydrogen Sulphide Aq.	*	C	A	A	A	A	A	A	B	A	C	*	A	*	A	A	A	A	A	*	A
Hydroquinone	*	*	*	B	*	A	A	A	B	A	*	*	A	*	*	A	A	A	A	*	*
Iodine (in Alcohol)	*	*	*	*	*	A	A	D	D	A	*	*	B	*	*	*	*	B	A	*	A
Iodine (in Pot Iodine) Aq.	*	*	*	*	*	A	A	D	D	A	*	*	B	*	*	*	*	A	A	*	A
Isopropylalcohol	C	A	*	C	*	A	A	A	B	A	A	*	A	*	A	*	*	A	A	*	A
Lactic Acid Aq.	*	B	*	A	*	A	A	A	C	A	A	A	A	*	A	A	A	A	A	A	A
Lactic Acid Aq.	*	*	*	*	*	A	A	*	*	A	*	*	*	*	A	*	*	A	A	A	A
Lead Acetate Aq.	*	*	*	*	A	A	A	A	B	A	*	*	A	*	A	A	A	A	A	*	A
Linseed Oil	*	A	*	*	A	A	A	D	A	A	*	A	*	A	A	A	A	A	*	A	A
Lubricating Oils (Petroleum)	*	A	*	*	A	*	A	C	A	A	A	B	C	*	A	A	A	A	A	A	A
Magnesium Chloride Aq.	*	A	*	*	A	A	A	A	A	A	A	A	A	*	A	A	A	A	A	A	A
Maleics Acid	*	*	*	*	A	A	A	A	*	A	*	*	A	*	*	A	A	A	*	*	*
Malonic Acid Aq.	*	*	*	*	*	*	A	*	*	A	*	*	*	A	*	*	*	*	A	*	A
Mercuric Chloride Aq.	*	B	A	*	A	A	A	A	C	A	*	*	A	*	*	A	A	A	A	*	B
Methyl Acetate	*	B	*	D	*	*	A	*	A	A	A	*	*	*	A	*	*	A	A	*	A
Methyl Ethyl Ketone	D	B	D	D	D	A	A	D	A	A	A	D	D	D	A	D	D	D	A	A	A
Methyl Chloride	*	C	*	D	D	A	A	D	C	A	D	D	D	D	A	D	D	A	A	*	A
Milk	B	A	*	*	A	A	A	A	A	A	A	A	A	*	A	A	A	A	A	*	A
Mineral Oils	*	A	*	*	A	A	A	B	A	A	*	C	C	*	A	A	A	A	A	A	A
Naphthalene	D	*	*	*	D	A	A	B	A	A	A	*	B	*	A	D	D	C	A	*	A
Nickel Sulphate Aq.	*	*	A	*	A	A	A	A	A	A	*	A	A	*	A	A	A	A	A	*	A
Nitric Acid Aq.	B	D	A	D	A	A	A	A	C	A	*	A	A	A	*	A	A	A	A	*	A
Nitric Acid Aq.	*	D	*	*	A	A	A	*	D	A	C	*	*	A	A	A	A	B	A	*	B
Oleic Acid	*	C	*	A	*	A	A	A	A	A	*	C	B	A	A	A	A	A	A	*	A
Oxalic Acid Aq.	*	C	A	*	A	A	A	A	C	A	*	*	A	A	A	A	A	C	A	*	A
Ozone	*	C	*	B	A	A	A	D	C	A	A	D	C	A	*	A	A	B	A	*	A
Paraffin	*	A	*	*	*	A	A		A	A	A	*	*	*	A	A		A	A	A	A
Perchloric Acid Aq.	*	C	*	*	A	A	A	B	D	A	A	*	C	*	*	A	A	A	A	*	A
Petrol	*	A	*	*	*	A	A	A	A	A	A	*	*	*	A	*	*	A	A	A	A
Phenol Aq.	*	D	*	*	*	A	A	*	D	D	C	*	*	*	*	*	*	C	A	*	A
Phosphoric Acid Aq.	*	*	A	A	A	A	A	A	*	A	A	C	A	A	A	A	A	A	A	A	A
Phosphoric Acid Aq.	*	C	*	*	A	A	A	*	*	A	A	*	*	A	A	A	A	A	A	A	A
Phosphoric Acid Aq.	*	C	*	*	A	A	A	*	D	A	B	*	*	A	A	A	A	A	A	A	A
Phthalic Acid Aq.	*	*	*	*	*	*	A	*	B	A	*	*	*	*	*	*	*	B	A	*	*
Potassium Bicarb. Aq.	*	*	*	*	A	*	A	A	A	A	A	*	A	*	A	A	A	A	A	*	A
Potassium Chloride Aq.	A	*	A	A	A	A	A	A	A	A	A	A	A	*	A	A	A	A	A	*	*
Potassium Ferrocyanide Aq.	*	*	A	*	A	A	A	*	A	A	*	*	*	*	*	A	A	A	A	*	A

