



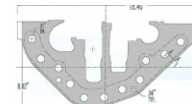
Chemical Resistance Chart

A - Attacked by R - Resistant to	Carbon Steel	Monel® 400	Inconel® 600/625	Copper	AL-6XN®	304/304L SS	316/316L SS	321 SS	347 SS	Hastelloy® C-276	Nickel 200	Titanium
Acetic Acid (room temp)		R	R	R		R	R			R	R	R
Acetic Anhydride (room temp)		R	R	R		R	R			R	R	
Acetone		R	R	R		R	R			R	R	
Aluminum Chloride (room temp)		R		R		A	A			R	R	
Aluminum Fluoride (room temp)		R		R		A	A			R	R	
Aluminum Sulphate		R	R	R		R	R			R	R	
Ammonia (Anhydrous)		R	R	A		R	R			R	R	R
Ammonium Chloride		R	R	A		A	R			R	R	
Ammonium Hydroxide		A	R	A		R	R			R	A	
Ammonium Nitrate		A	R	A		R	R			R	A	R
Ammonium Phosphate		R	R	R		R	R			R	R	
Ammonium Sulphate		R	R	R		A	R			R	R	
Amyl Acetate		R	R	R		R	R			R	R	
Aniline		R	R	R		R	R			R	R	
Barium Chloride			R	R		R	R			R	R	
Beer		R	R	R		R	R			R	R	
Benzene		R	R	R		R	R			R	R	
Benzol		R	R	R		R	R			R	R	
Borax		R	R	R		R	R			R		
Boric Acid		R	R	R		R	R			R	R	
Bromine		R	R	R		A	A			R	R	
Butyl Alcohol		R	R	R		R	R			R	R	
Calcium Carbonate		R	R	R		R	R			R	R	
Calcium Chloride		R	R	R		R	R			R	R	R
Calcium Hydroxide		R	R	R		R	R			R	R	
Calcium Hypochlorite		A	A	A		R	R			R	R	
Carbolic Acid		R	R	R		R	R			R	R	
Carbon Tetrachloride		R	R	R		R	R			R	R	
Chlorine - Dry		R	R	R		A	A			R	R	
Chlorine - Wet		R	R	A		A	A			A	R	R
Chromic Acid		A	R	A		R	R			R	A	R
Citric Acid		R	R	R		R	R			R	R	R
Cooper Chloride		A	A	A		A	R			R	A	
Cooper Sulphate		R	R	R		R	R			R	R	
Creosote (Coal Tar)		R	R	R		R	R				R	

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A - Attacked by R - Resistant to	Carbon Steel	Monel® 400	Inconel® 600/625	Copper	AL-6XN®	304/304L SS	316/316L SS	321 SS	347 SS	Hastelloy® C-276	Nickel 200	Titanium
Crude Oil		R		R		R	R			R		
Ether		R	R	R		R	R			R	R	
Ethyl Acetate		R	R	R		R	R			R	R	
Ethyl Chloride		R		R		R	R			R	R	
Ferric Chloride		A	A	A		A	A			R	A	
Ferric Sulphate		A	A	R		R	R			R	A	
Formaldehyde		R	R	R		R	R			R	R	
Formic Acid		R	R	R		R	R			R	R	
Fuel Oil		R	R	R		R	R			R	R	
Fuel Oil (Acid)		R	A	R		A	R			R	A	
Furfural		R	R	R		R	R			R	R	
Gasoline		R	R	R		R	R			R	R	
Glue		R	R	R		R	R			R	R	
Glycerin		R	R	R		R	R			R	R	
Hydrobromic Acid		A	A	A		A	A			R	A	
Hydrochloric Acid		A	A	A		A	A			R	A	A
(room temp 150°F)		A	A	A		A	A			R	A	A
Hydrocyanic Acid		R		R		R	R			R		
Hydrofluoric Acid		R	R	A		A	A			R	R	A
Hydrofluosilicic Acid			R	A		A	A			R	R	
Hydrogen Peroxide		R	R	R		R	R			R	R	R
Hydrogen Sulphide		R	R	R		R	R			R	R	R
Kerosene		R	R	R		R	R			R	R	
Lactic Acid		A	R	R		R	R			R	A	
Linseed Oil		R	R	R		R	R			R	R	
Lye (Caustic)		R	R	R		R	R			R	R	
Manganese Carbonate		R	R	R		R	R				R	
Manganese Chloride		R	R	R		R	R				R	
Magnesium Carbonate		R	R	R		R	R			R	R	
Magnesium Chloride		R	R	R		R	R			R	R	R
Magnesium Hydroxide		R	R	R		R	R			R	R	
Magnesium Nitrate		R	R	R		R	R			R		
Magnesium Sulphate		R	R	R		R	R			R	R	R
Methylene Chloride		A	A	A		A	A			R	A	
Mercuric Chloride		A	A	A		A	A			R	A	
Mercury		R	R	A		R	R			R	R	
Muriatic Acid		A	A	A		A	A			R	A	
Nitric Acid-Diluted		A	A	A		R	R			R	A	R
Nitric Acid-Concentrated		A	A	A		R	R			R	A	R
Nitrous Acid			R	R		R	R					

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	Carbon Steel	Monel® 400	Inconel® 600/625	Copper	AL-6XN®	304/304L SS	316/316L SS	321 SS	347 SS	Hastelloy® C-276	Nickel 200	Titanium
Nitrous Oxide		R	A	R						R	A	
Oleic Acid		R	R	R		R	R			R	R	
Oxalic Acid		R	R	R		R	R			R	R	
Petroleum Oils-Crude		R	R	A		R	R			R	R	
Phosphoric Acid		R	R	R		R	R			R	R	R
Picric Acid		A	A	C		R	R			R	A	
Potassium Bromide		R	R	R		R	R			R	R	
Potassium Carbonate		R	R	R		R	R			R	R	
Potassium Chloride		R	R	R		R	R			R	R	
Potassium Cyanide		R	R	A		R	R			R	R	
Potassium Hydroxide		R	R	A		R	R			R	R	R
Potassium Sulphate		R	R	R		R	R				R	
Sea Water		R	R	R		R	R			R	R	
Sewage				R		R	R					
Silver Nitrate		A	R	A		R	R			R	A	
Soaps		R	R	R		R	R			R	R	
Sodium Bicarbonate		R	R	R		R	R			R	R	
Sodium Bisulphate		R	R	R		R	R			R	R	
Sodium Bromide		R	R	R		R	R			R	R	
Sodium Carbonate		R	R	R		R	R			R	R	
Sodium Chloride		R	R	R		R	R			R	R	R
Sodium Hydroxide		R	R	R		R	R			R	R	R
Sodium Hyperchlorite		A	A	A		R	R			R	A	
Sodium Nitrate		R	R	R		R	R			R	R	R
Sodium Peroxide		R	R	R		R	R			R	R	
Sodium Phosphate		R	R	R		R	R			R	R	
Sodium Silicate		R		R		R	R			R		
Sodium Sulphate		R	R	R		R	R			R	R	
Sodium Sulphide			R	A		R				R	R	
Soy Bean Oil		R		R		R	R			R		
Steam		R	R	R		R	R				R	
Stearic Acid		R	R	R		R	R			R	R	
Stannic Chloride		R	R	A		R	R			R	R	
Sulphur Chloride		R		R		A	A			R	R	
Sulphur Dioxide-Dry		R	R	R		R	R			R	R	R
Sulphuric Acid-<10%-Cold		R	A	R		A	R			R	R	R
Sulphuric Acid-<10%-Hot		R	A	A		A	A			R	A	R
Sulphuric Acid-10-50%-Cold		R	A	A		A	A			R	A	R
Sulphuric Acid-10-50%-Hot		A	A	A		A	A			R	A	R
Sulphuric Acid-Fuming		A	A	A		R	R			R	A	R

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Sulphurous Acid		A	A	A		A	R			R	A	
Sulphur-Molten		A	R	A		R	R			R	A	
Tannic Acid		R	R	R		R	R			R	R	
Tartaric Acid		R	R	R		R	R			R	R	
Vinegar		R	R	R		R	R			R	R	
Zinc Chloride		R	R	R		A	A			R	R	R
Zinc Sulphate		R	R	R		R	R			R	R	

Note

- ®AL-6XN is a registered trademark of Allegheny Ludlum Corporation.
- ®HASTELLOY is a registered trademark of Haynes International.
- ®INCONEL is a registered trademark of Inco Alloys International, Inc.
- ®MONEL is a registered trademark of International Nickel.

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