

CHEMICAL RESISTANCE CHART**TYPICAL CORROSION RESISTANCE OF STAINLESS STEEL TO VARIOUS MEDIA**

CODE: a – Unaffected. b – Slightly attacked. c – Attacked. m – Complete details concerning the conditions of service must be evaluated.

MEDIUM	TYPE CF8 304	NUMBERS CF8M 316	MEDIUM	TYPE CF8 304	NUMBERS CF8M 316	MEDIUM	TYPE CF8 304	NUMBERS CF8M 316																																																																																																																																																						
ORGANIC SUBSTANCES																																																																																																																																																														
Acetone	a	a	ACIDS (Continued)			SALTS (Continued)																																																																																																																																																								
Benzol	a	a	Trichloracetic acid (10%)	a	a	Potassium hydrate	a	a																																																																																																																																																						
Carbon tetrachloride	c	c	Uric (conc.)	a	a	Potassium nitrate	a	a																																																																																																																																																						
Ethyl alcohol	a	a	SALTS			Potassium oxalate	a	a																																																																																																																																																						
Ethyl chloride	a	a	Aluminum chloride	c	c	Potassium permanganate	a	a																																																																																																																																																						
Ethyl ether	a	a	Aluminum fluoride	c	b	Potassium sulfate	a	a																																																																																																																																																						
Food pastes	a	a	Aluminum sulfate	a	a	Silver nitrate	a	a																																																																																																																																																						
Fruit juices	a	a	Ammonium alum	a	a	Silver cyanide	a	a																																																																																																																																																						
Ink	m	m	Ammonium bromide	c	a	Sodium bicarbonate	a	a																																																																																																																																																						
Mustard	b	a	Ammonium chloride	b	a	Sodium borate	a	a																																																																																																																																																						
Paregoric cmpd	a	a	Ammonium hydroxide	a	a	Sodium bromide	a	a																																																																																																																																																						
Quinine bisulfate	b	a	Ammonium nitrate	a	a	Sodium chloride (2% aerated)	a	a																																																																																																																																																						
Quinine sulfate	a	a	Ammonium sulfate	a	a	Sodium citrate	a	a																																																																																																																																																						
Vinegar at 70°F	m	m	Barium chloride	a	a	Sodium fluoride	b	—																																																																																																																																																						
ACIDS																																																																																																																																																														
Acetic	m	m	Bleaching powder	c	a	Sodium hydroxide	a	a																																																																																																																																																						
Benzoic	a	a	Calcium chloride	c	a	Sodium nitrate	a	a																																																																																																																																																						
Boric	a	a	Calcium hydroxide or oxide	a	a	Sodium peroxide (212°F)	a	a																																																																																																																																																						
Carbolic	a	a	Copper chloride	c	c	Stannic chloride	c	c																																																																																																																																																						
Chromic (50%)	c	c	Copper cyanide	a	a	Stannous chloride	b	—																																																																																																																																																						
Citric	a	a	Copper nitrate	a	a	Sulfur (molten) 500°F	a	a																																																																																																																																																						
Formic	c	m	Copper sulfate	a	a	Sulfur chloride	b	—																																																																																																																																																						
Hydrobromic	c	c	(plus 2% sulfuric acid)	a	a	Titanium tetrachloride	a	a																																																																																																																																																						
Hydrocyanic	a	a	Copper sulfate	a	a	Zinc chloride	c	b																																																																																																																																																						
Hydrochloric	c	c	Creosote	c	a	Zinc sulfate	a	a																																																																																																																																																						
Hydrofluoric	c	c	Creosote (plus 3% salt)	c	c	MISCELLANEOUS																																																																																																																																																								
Lactic	a	a	Hydrogen peroxide	b	a	Nitric (conc.)	a	a	Magnesium carbonate	a	a	Ammonia	a	a	Nitric (conc. plus 2% HCl)	a	—	Magnesium chloride	m	m	Baking oven gases	a	a	Nitrous (conc.)	a	a	Magnesium sulfate	a	a	Bromine	c	c	Oxalic	m	m	Magnesium hydroxide	a	a	Carbonated beverages	a	a	Phosphoric	a	a	Magnesium nitrate	a	a	Chlorine (wet and dry)	c	c	Phosphoric (10%)	a	a	Phosphorous trichloride	a	a	Glycerin	a	a	Picric (conc.)	a	a	Potassium bromide	a	a	Hydrogen sulfide (400°F)	b	a	Pyrogallic (conc.)	a	a	Potassium carbonate	m	m	Iodine	c	a	Pyroligneus (conc.)	a	a	Potassium chlorate	a	a	Lead (molten)	c	c	Stearic (conc.)	a	a	Potassium cyanide	a	a	Lysol	m	m	Succinic (molten)	c	—	Potassium dichromate	a	a	Mercury	a	a	Sulfuric (conc.)	a	a	Potassium ferricyanide	a	a	Sauerkraut brine	c	a	Sulfuric (dil.)	m	m	Potassium ferricyanide (boiling)	a	a	Sea water	m	m	Sulfuric 15% (plus 2% potassium dichromate)	a	a	Potassium hypochlorite	c	m	Sulfur dioxide	b	b	Sulfurous (conc.)	b	a	Potassium iodide	a	a	Vegetable juices	a	a	Tannic (conc.)	a	a	Potassium iodide (sat. plus 0.1% sodium carbonate evaporated to dryness)	a	a	X-ray developing solution	b	a	Tartaric (conc.)	a	a				Zinc (molten)	c	c
Nitric (conc.)	a	a	Magnesium carbonate	a	a	Ammonia	a	a																																																																																																																																																						
Nitric (conc. plus 2% HCl)	a	—	Magnesium chloride	m	m	Baking oven gases	a	a																																																																																																																																																						
Nitrous (conc.)	a	a	Magnesium sulfate	a	a	Bromine	c	c																																																																																																																																																						
Oxalic	m	m	Magnesium hydroxide	a	a	Carbonated beverages	a	a																																																																																																																																																						
Phosphoric	a	a	Magnesium nitrate	a	a	Chlorine (wet and dry)	c	c																																																																																																																																																						
Phosphoric (10%)	a	a	Phosphorous trichloride	a	a	Glycerin	a	a																																																																																																																																																						
Picric (conc.)	a	a	Potassium bromide	a	a	Hydrogen sulfide (400°F)	b	a																																																																																																																																																						
Pyrogallic (conc.)	a	a	Potassium carbonate	m	m	Iodine	c	a																																																																																																																																																						
Pyroligneus (conc.)	a	a	Potassium chlorate	a	a	Lead (molten)	c	c																																																																																																																																																						
Stearic (conc.)	a	a	Potassium cyanide	a	a	Lysol	m	m																																																																																																																																																						
Succinic (molten)	c	—	Potassium dichromate	a	a	Mercury	a	a																																																																																																																																																						
Sulfuric (conc.)	a	a	Potassium ferricyanide	a	a	Sauerkraut brine	c	a																																																																																																																																																						
Sulfuric (dil.)	m	m	Potassium ferricyanide (boiling)	a	a	Sea water	m	m																																																																																																																																																						
Sulfuric 15% (plus 2% potassium dichromate)	a	a	Potassium hypochlorite	c	m	Sulfur dioxide	b	b																																																																																																																																																						
Sulfurous (conc.)	b	a	Potassium iodide	a	a	Vegetable juices	a	a																																																																																																																																																						
Tannic (conc.)	a	a	Potassium iodide (sat. plus 0.1% sodium carbonate evaporated to dryness)	a	a	X-ray developing solution	b	a																																																																																																																																																						
Tartaric (conc.)	a	a				Zinc (molten)	c	c																																																																																																																																																						