



CHEMICAL RESISTANCE CHART FOR FITTINGS

LEGEND: "1" = Very Suitable, "2" = Suitable "3" = Not suitable, "-" = No data

Service	CS	Cast Iron	SS 304	SS 316	Bronze	Monel	Hasteloy	Titanium
Acetaldehyde	1	1	1	1	1	1	1	na
Acetic acid, air free	3	3	2	2	2	2	1	1
Acetic acid, aerated	3	3	1	1	1	1	1	1
Acetic acid, vapors	3	3	1	1	2	2	1	1
Acetone	1	1	1	1	1	1	1	1
Acetylene	1	1	1	1		1	1	na
Alcohols	1	1	1	1	1	1	1	1
Aluminum Sulfate	3	3	1	1	2	2	1	1
Ammonia	1	1	1	1	3	3	1	1
Ammonium chloride	3	3	2	2	2	2	1	1
Ammonium Nitrate	1	3	1	1	3	3	1	1
Ammonium Phosphate	4	3	1	1	2	2	1	1
Ammonium Sulfate	3	3	2	1	2	1	1	1
Ammonium Sulfite	3	3	1	1	3	3	1	1
Aniline	3	3	1	1	3	2	1	1
Asphalt	1	1	1	1	1	1	1	na
Beer	2	2	1	1	2	1	1	1
Benzene (benzol)	1	1	1	1	1	1	1	1
Benzoic acid	3	3	1	1	1	1	1	1
Boric acid	3	3	1	1	1	1	1	1
Butane	1	1	1	1	1	1	1	
Calcium Chloride (alkaline)	2	2	3	2	3	1	1	1
Calcium hypochlorite	3	3	2	2	2	2	1	1
Carbolic acid	2	2	1	1	1	1	1	1
Carbon dioxide, dry	1	1	1	1	1	1	1	1
Carbon dioxide, wet	3	3	1	1	2	1	1	1
Carbon disulfide	1	1	1	1	3	2	1	1
Carbon tetrachloride	2	2	2	2	1	1	1	1
Carbonic acid	3	3	2	2	2	1	1	

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Service	CS	Cast Iron	SS 304	SS 316	Bronze	Monel	Hasteloy	Titanium
Chlorine gas	1	1	2	2	2	1	1	3
Chlorine gas, wet	3	3	3	3	3	3	2	1
Chlorine, liquid	3	3	3	3	2	3	1	3
Chromic acid	3	3	3	2	3	1	1	1
Citric acid	3	3	2	1	1	2	1	1
Coke oven gas	1	1	1	1	2	2	1	1
Copper sulfate	3	3	2	2	2	3	1	1
Cottonseed oil	1	1	1	1	1	1	1	1
Creosote	1	1	1	1	3	1	1	
Ethane	1	1	1	1	1	1	1	1
Ether	2	2	1	1	1	1	1	1
Ethyl chloride	3	3	1	1	1	1	1	1
Ethylene	1	1	1	1	1	1	1	1
Ethylene glycol	1	1	1	1	1	1	na	na
Ferric chloride	3	3	3	3	3	3	2	1
Formaldehyde	2	2	1	1	1	1	1	1
Formic acid	3	3	2	2	1	1	1	3
Freon wet	2	2	2	1	1	1	1	1
Freon dry	2	2	1	1	1	1	1	1
Furfural	1	1	1	1	1	1	1	1
Gasoline	1	1	1	1	1	1	1	1
Glucose	1	1	1	1	1	1	1	1
Hydrochloric acid, aerated	3	3	3	3	3	3	2	01-Feb
Hydrochloric acid, air free	3	3	3	3	3	3	2	01-Feb
Hydrofluoric acid, aerated	2	3	3	2	3	3	1	3
Hydrofluoric acid, air free	1	3	3	2	3	1	1	3
Hydrogen	1	1	1	1	1	1	1	1
Hydrogen peroxide		2	1	1	3	3	2	1

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Hydrogen sulfide, liquid	3	3	1	1	3	3	1	1
Magnesium Hydroxide	1	1	1	1	2	1	1	1
Mercury	1	1	1	1	3	2	1	1
Methanol	1	1	1	1	1	1	1	1
Methyl ethyl ketone	1	1	1	1	1	1	1	
Milk	3	3	1	1	1	1	1	1
Natural gas	1	1	1	1	1	1	1	1
Nitric acid	3	3	1	2	3	3	2	1
Oleic acid	3	3	1	1	2	1	1	1
Oxalic acid	3	3	2	2	2	2	1	2
Oxygen	1	1	1	1	1	1	1	1
Petroleum oils	1	1	1	1	1	1	1	1
Phosphoric acid, aerated	3	3	1	1	3	3	1	2
Phosphoric acid, air free	3	3	1	1	3	2	1	2
Phosphoric acid vapors	3	3	2	2	3	3		2
Picric acid	3	3	1	1	3	3	1	na
Potassium chloride	2	2	1	1	2	2	1	1
Potassium hydroxide	2	2	1	1	2	1	1	1
Propane	1	1	1	1	1	1	1	1
Rosin	2	2	1	1	1	1	1	
Silver Nitrate	3	3	1	1	3	3	1	1
Sodium acetate	1	1	2	1	1	1	1	1
Sodium carbonate	1	1	1	1	1	1	1	1
Sodium chloride	3	3	2	2	1	1	1	1
Sodium chromate	1	1	1	1	1	1	1	1
Sodium hydroxide	1	1	1	1	3	1	1	1
Sodium hypochloride	3	3	3	3	3	3	1	1
Sodium thiosulfate	3	3	1	1	3	3	1	1
Stannous chloride	2	2	3	1	3	2	1	1

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Service	CS	Cast Iron	SS 304	SS 316	Bronze	Monel	Hasteloy	Titanium
Stearic acid	1	3	1	1	2	2	1	1
Sulfate liquor	1	1	1	1	3	1	1	1
Sulfur	1	1	1	1	3	1	1	1
Sulfur dioxide, dry	1	1	1	1	1	1	1	1
Sulfur trioxide, dry	1	1	1	1	1	1	1	1
Sulfuric acid, aerated	3	3	3	3	3	3	1	2
Sulfuric acid, air free	3	3	3	3	2	2	1	2
Sulfurous acid	3	3	2	2	2	3	1	1
Tar	1	1	1	1	1	1	1	1
Trichloroethylene	2	2	2	1	1	1	1	1
Turpentine	2	2	1	1	1	2	1	1
Vinegar	3	3	1	1	2	1	1	na
Water, steam boiler feeding system	2	3	1	1	3	1	1	1
Water, distilled	1	1	1	1	1	1	1	1
Water, sea	2	2	2	2	1	1	1	1
Whiskey	3	3	1	1	1	2	1	1
Wine	3	3	1	1	1	2	1	1
Zinc chloride	3	3	3	3	3	3	1	1
Zinc sulfate	3	3	1	1	2	1	1	1

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