

Nordstrom Sealant Selection Chart

Due to varying service conditions, the recommendations in this chart are to be used as a guide in selecting the proper sealant. The specific properties of the sealants suggested should be checked with the more complete descriptions given on the preceding pages with particular regard to temperatures and services.

Valve application / sealant number

A

Acetaldehyde / 755
 Acetate solvents / 755
 Acetic anhydride / 421
 Acetone / 421, 234
 Acetylene gas / 421
 Acids, general / 421
 Acrylonitriles / 755
 Air / 234, 950, 1033
 Air Dryers / 167, 234 1033
 Alcohols / 234, 421
 Alkalies / 421
 Alkyd resins / 755
 Aluminum salt solutions / 421
 Ammonia, gas or liquid / 421
 Ammonium salt solutions / 421
 Amyl chloride / 755
 Aniline / 755
 Aniline dyes
 Hydrocarbon solvents / 755
 Aqueous solvents / 421
 Anodizing solutions / 421
 Anthracene oil / 654, 167
 Arsenic trichloride / 421
 Asphalt / 654, 950, 1033
 Asphalt emulsions / 421
 Asphalt paints / 755

B

Barium salt solutions / 421
 Beet sugar liquors / 234
 Benzaldehyde
 Pure / 755
 Benzene (benzol) / 755
 Benzine / 950, 960, 1033
 Bituminous paints / 755
 Black liquor (paper industry) / 421
 Blast furnace gas / 386, 654
 Blood plasma / 234
 Boiler water / 421, 167
 Borax / 421, 960
 Bromine / On application
 Bulk stations / 950, 555
 Bunker oils (fuel oils) / 950, 555, 1033
 Butadiene / 950, 555, 1033
 Butane / 950, 555, 1033

C

Calcium hydroxide / 421
 Calcium salt solutions / 421
 Cane sugar liquors / 234
 Carbon dioxide / 421, 960
 Carbon disulfide / 755
 Carbon monoxide / 234, 960
 Carbonated beverages / 755
 Castor oil / 755, 234
 Caustic soda / 421
 Cellosolve solvents / 755
 Cellulose nitrate / 755
 Chlorinated paraffin / 755
 Chlorinated solvents / 755
 Chlorine / On application
 Chrome plating solutions / 421
 Coal gas / 386, 421
 Coal tar / 755, 555, 1033
 Coat tar solvents / 755

Cocoon oil / 755, 234
 Coke oven gas / 654
 Compressor discharge
 350°F & up / 167, 654
 Compressor manifolds / 950, 167
 Copper plating solution / 421
 Copper sulfate / 421
 Corn oil / 755, 234
 Corn syrup / 234
 Cottonseed oil / 755, 234
 Creosote / 654, 555, 1033
 Cresylic acid (cresol) / 421
 Crude oil / 950, 555, 1033
 Cumene / 755
 Curb cocks / *
 Cutting oils, water emulsions / 555
 Cyanide solutions / 421

D

Dextrose / 234
 Diesel fuel / 950, 555, 1033
 Diethanolamine / 421
 Diethylene glycol / 167, 421
 Distillate, mineral oil / 950, 555, 1033
 Dowtherm / 755, 167
 Drilling mud / 555
 Drinking water / 421
 Dryer service / 167

E

Electrolytic cell liquor / 234, 421
 Epsom salts / 421
 Ethane / 555, 1033
 Ethanolamines / 421
 Ether, ethyl / 755, 555, 1033
 Ether, petroleum / 950, 555, 1033
 Ethyl benzene / 755
 Ethyl chloride / 755
 Ethyl silicate / 555
 Ethylene / 555
 Ethylene glycol / 167, 421
 Ethylene oxide / 755

F

Fatty acids / 234
 Ferric salts / 421
 Ferrous salts / 421
 Filling stations / 950, 555, 1033
 Fish oil / 755, 234
 Fluorine / On application
 Food products / 234
 Formaldehyde / 421
 Freon / 755
 Fruit juices / 234
 Fuel oil / 950, 555
 Furfural / 234, 167

G

Gas dryers / 167, 234
 Gas, manufactured / 555, 960, 1033
 Gas, natural / *
 Gases, fuel / *
 Gas odorizers / 755
 Gasoline / 950, 555, 1033
 Glacial acetic acid / 234
 Glucose / 234

Valve application / sealant number

Glycerine (glycerol) / 234
Grease / 755
Green liquor / 421
Green soap / 421

H

Helium / 234
Heptane / 950, 555, 1033
Hexane / 950, 555, 1033
Hot oil lines / 654, 167
Hot water / 234, 167
Hydrogen / 421
Hydrogen peroxide / On application
Hydrogen sulfide
 Mixtures / 950, 555
 Pure / 421

I

Isobutane / 950, 555
Isobutylene
 Liquid / 950, 555
 Vapor / *
Iso-octane / 950, 555, 1033

J

Jet fuel / 950, 1033

K

Kerosene / 950, 555, 1033
Ketones (except acetone) / 755

L

Lacquer solvents / 755
Latex / 421
Lead arsenate, slurry / 421
Light naphthas / 950, 555, 1033
Light oil, coal tar / 755
Linseed oil / 234
Liquefied petroleum gas (LPG) / 950, 555
Lubricating oil / 654

M

Magnesium salts / 234
Magnesium hydroxide / 234
Maleic acid (anhydride) / 234
Manganous sulfate / 234
Mash, distillery / 234
Mercuric chloride / 234
Mercury / 555
Meter set-ups / *
Methane / *
Milk / 234
Milk of lime / 421
Mineral oil / 654, 555, 1033
Mineral spirits / 950, 1033
Molasses / 234
Monochloroacetic acid / 234
Monoethanolamine / 421
Mud lines / 950, 555

N

Naphtha / 950, 555, 1033
Naphtha / 755, 167
Naphthenic acid / 234
Natural gas / *
Nickel plating solutions / 421

Nitrobenzene / 755
Nitrogen / 386, 421
Nitrogen solutions / 234
Nitromethane / 755

O

Octane / 950, 555, 1033
Oil, petroleum / 950, 555, 1033
Oil tar / 755, 167
Oil-water mixtures / 950, 555
Oleic acid / 234
Oleum / 660
Olive oil / 755, 234

P

Paint thinner / 755
Palm oil / 755, 234
Palmitic acid / 234, 921
Parafin / 755, 555, 1033
Peanut oil / 234
Pentane / 950, 555
Petrolatum / 950, 555, 1033
Petroleum ether / 950, 555, 1033
Petroleum oil / 950, 555, 1033
Phenol / 421
Phosphorus oxychloride / On application
Phosphorus trichloride / On application
Phthalic acid (anhydride) / 167
Pine resin / 755, 167
Pitch / 755, 167
Polyethylene / On application
Polysibutylene / 755, 555
Potassium salts / 234
Producer gas / 167
Propane / 950, 555
Propylene
 Liquid / 950, 555
 Vapor / *
Propylene oxide / 755
Pyridine / 755

Q

Quench oil / 755, 555, 1033

R

Residuum lines / 654
Road tar / 755, 555, 1033
Roofing pitch / 755, 555, 1033
Rosin, solution / 421
Rubber, latex emulsions / 421
Rubber solvent / 755

S

Salt solution / 421, 960
Sea water / 960
Separators, oilfield / 950, 555
Sewage / 421
Shellac / 421
Silicone fluids / 755
Soap solutions / 421
Sodium (molten) / 234
Sodium hydroxide / 421
Sodium salt solutions / 421, 960
Solder, molten / 234
Soluble oil / 234, 654
Soy bean oil / 755, 234

Stannic chloride / 421
Starch solutions / 421
Steam / 234, 167
Stearic acid / 755, 234
Stoddard solvent / 950, 555, 1033
Strontium salt solutions / 421
Styrene / 755
Sugar solutions / 234
Sulfate liquor / 421
Sulfite liquor / 421
Sulfonated oils / 755, 555, 1033
Sulfur (molten) / 234, 167
Sulfur chloride / 234
Sulfur dioxide / 421
Sulfur monochloride / 234
Sulfur trioxide / 421
Synthetic tannis / 421

T

Tall oil / 234, 167
Tallow / 234, 167
Tannic acid / 421, 167
Tanning liquors / 421, 167
Tar / 755, 654, 1033
Tartaric acid / 421, 167
Tempering oil / 755, 555, 1033
Tetraethyl lead / 755
Titanium tetrachloride / On application
Toluene / 755
Triethanolamine / 421
Tri-sodium phosphate / 421
Turpentine / 755

U

Ucon fluids / 234, 167

V

Vacuum lines / 234
Varnish / 234
Vegetable oils / 234
Vegetable tannins / 421
Vinyl chloride / 755
Vinylidene chloride / 755

W

Water / 167, 421
Water gas
 Dry / 555
 Wet / 950, 555
Wax emulsions / 421
Waxes / 755
Whiskey / 234
White liquor (paper industry) / 421
White water (paper industry) / 421
Wine / 234

X

Xylene (xylol) / 755

Z

Zinc salts / 421

* Below 0°F 960, 1033
Above 0°F 555, 1033