



Chemical Resistance Chart For Protectowire PLR Type R Jacket Material

This information is a guide only and will vary depending on a variety of factors, such as the type and strength of chemicals in contact with the jacket and varying temperatures and pressures to which it is exposed. Appropriate chemical resistance tests using a representative sample of the chemical(s) or a trial installation of the Protectowire Linear Heat Detector should be performed to determine acceptable product performance.

Rating: A – Little or No Chemical Effect (< 10% Volume Swell)

Acetaldehyde	Chloroacetic acid	Linseed Oil	Potassium salts
Acetic acid	Chronic acid	Magnesium salt	Silver salts
Acetic Anhydride	Chromium salts	Maleic acid	Soap solutions
Acrylonitrile	Copper salts	Manganese salts	Sodium salts
Aluminum Chloride	Ethylene glycol	Mercury salts	Sodium hydroxide
Aluminum sulfate	Ferric salts	Methanol	Sodium hypochlorite
Ammonia	Fluoborate salts	Natural gas	Stearic acid
Ammonium salts	Fluoboric acid	Nickel salts	Sulfur dioxide
Ammonium hydroxide	Fluosilicic acid	Nitric acid – 10%	Sulfuric acid, dil.
Amyl acetate	Formaldehyde	Nitroethane	Sulfurous acid
Antimony salts	Formamide	Nitrogen oxides	Tannic acid
Arsenic salts	Formic acid	Nitrous acid	Tanning extracts
Barium salts	Glucose	Oils, animal	Trisodium phosphate
Benzoic acid	Glycerin	Oils, mineral	Urea
Bleaching liquid	Hydrochloric acid	Oils, vegetable	Uric acid
Boric acid	Hydrocyanic acid	Oxalic acid	Water
Bromine	Hydrogen peroxide	Oxygen	Water (brine)
Butyric acid	Hydrogen sulfide	Phosphoric acid	Zinc salts
Calcium salts	Iodine and solutions	Phthalic acid	
Carbon Dioxide	Lactic acid	Phosphoric acid	
Chlorine (wet/dry)	Lead salts	Plating solutions	

Rating: B – Minor Effect

Acetates	Butane	Me Et Ketone	Skydrol - Hydraulic Fluid
Acetone	Butanol	Nitric acid – 30%	Sulfuric acid – 90%
Alcohols	Essential Oils	Nitrobenzene	Tetrahydrofuran
Amyl alcohol	Ethers	Oleic acid	Turpentine
Aniline	Ethanol	Phenol	
Benzaldehyde	Furfural	Propanol	
Benzyl alcohol	Lithium grease	Pyridine	

Rating: F – Severe Effect / Not Recommended

Benzene	Cyclohexane	Kerosene	Nitric acid – 70%
Carbon tetrachloride	Ethyl chloride	Trichloroethylene	Perchloroethylene
Chlorobenzene	Freon	Lacquer	Toluene
Chloroform	Gasoline, unleaded	Naphtha	Xylene

The information provided is not a guarantee of product performance nor a recommendation for product use in the environments indicated. The Protectowire Company assumes no liability whatsoever in respect to application, or use made of the aforementioned information or products, or any consequence thereof.

File: PLR Chemical Resistance Chart

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