



Chemical Resistance Chart
For Protectowire Type EPR Jacket Material

The effect on the jacket of complex chemical mixtures cannot be predicted by this chart. The 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.

Ratings-Chemical Effect:

- A** - Little or no effect.
(< 20% Volume Swell)
- B** - Minor effect.
(20-40% Volume Swell)

- C** - Moderate effect.
(40-60% Volume Swell)
- D** - Severe effect - Not recommended
(>60% Volume Swell)

Immersion times were approximately 168 hours per ASTM D-471 at 23°C or as stated.

<u>Chemicals</u>	<u>Rating</u>
Acetic Acid	A
Sulfuric Acid 98%	A
Hydrochloric Acid 10%	A
Potassium Hydroxide 10%	A
Sodium Hydroxide 50%	A
Zinc Chloride 10%	A
Water @ 100°C	A
Water (Chlorine 4ppm)	A
Water (Chloramines 4ppm)	A
Sea Water	A
Sodium Chloride 15%	A
Acetone	A
Acrylonitrile	A
Aniline	A
n-Butyl acetate	A
Ethanol	A
Diethylether	A
Glycerol	A
n-Hexane	A
Methanol	A
Methylethylketone	A
Nitrobenzene	A
1- Propanol	A

Continued

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**Manufacturer of
 Special Hazard
 Fire Detection Systems**

Petroleum Oils & FuelsRating

Oil ASTM #1 @ 100°C	A
Oil ASTM #2 @ 100°C	A
Oil ASTM #3 @ 100°C	B
Fuel B (Isooctane/Toluene, 70/30)	B
Fuel C (Isooctane/Toluene, 50/50)	B

Automotive Fluids

Hydraulic Brake Fluid	A
Hydraulic Brake Fluid @ 100°C	A
Ethylene Glycol (Antifreeze/water 50/50) @ 125°C	A

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