



High Voltage Products. High Voltage Experts.

JACKET MATERIALS SELECTION

Relative Performance Data

Mechanical	PVC	Polyethylene	Neoprene	Chlorosulphonated Polyethylene	Thermoplastic CPE
Abrasion Resistance	Good	Excellent	Good	Good	Excellent
Tensile Strength	Excellent	Excellent	Excellent	Excellent	Good
Elongation	Good	Excellent	Excellent	Excellent	Good
Compression Resistance	Good	Excellent	Excellent	Excellent	Good
Flexibility	Good	Fair	Excellent	Excellent	Fair
Environmental					
Flame	Good	Poor	Excellent	Excellent	Good
Moisture	-	-	-	-	-
Fresh or Salt Water	Good	Exceptional	Good	Excellent	Excellent
Petroleum Oils					
Motor Oil	-	Excellent	-	-	Good
Fuel Oil	Good	Slight swelling above 60°C	Good	Good	Poor above 110°C
Crude Oil	-	-	-	-	-
Creosote	Poor	Good	Fair	Fair	Good
Paraffinic Hydrocarbons	-	-	-	-	-
Gasoline	Good	Excellent	Poor	Poor	Excellent
Kerosine	-	Slight swelling at higher temps	-	-	Slight swelling at higher temps
Alcohols					
Isopropyl	-	-	-	-	-
Wood	Fair	Good	Fair	Good	Good
Grain	-	-	-	-	-
Mineral Acids	-	-	-	-	-
Sulfuric	-	-	-	-	-
Nitric	Excellent	Excellent	Excellent	Excellent	Excellent
Hydrochloric	-	-	-	-	-
Fixed Alkalis Sodium Hydroxide (LYE)	-	-	-	-	-
Potassium (Potash)	-	-	-	-	-
Calcium (Lime)	Good	Excellent	Good	Excellent	Excellent
Ketones	-	-	-	-	-
Acetone	-	-	-	-	-
MEK	Poor	Good	Poor	Fair	Good
Esters					
Ethyl Acetate					
Lacquer Thinners					
Halegonated Hydrocarbons					
Chloroform	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-
Methyl Chloride	Poor	Poor	Poor	Poor	Poor
General					
Leaves protective residue after combustion	Yes	No	Yes	Yes	Yes
Oxygen Index (ASTM D-2863)	23-30%	17-18%	31-39%	30-36%	30-34%
Halogen Content - % Wt.	26	0	18	14	18-20
Minimum Installation Temperature	14°F (-10°C)	-40°F (-40°C)	-4°F (-20°C)	-4°F (-20°C)	-40°F (-40°C)
Dimensional Stability Under Heat	Fair	Fair	Excellent	Excellent	Fair
Maximum Operating Temperature	75°C (167°F)	75°C (167°F)	90°C (194°F)	90°C (194°F)	75°C (167°F)

Note: When cables are to be installed in cold weather, they should be kept in heated storage for at least 24 hours before installation.