



SUBSEA INSULATIONS: ENGINEERED TO PROTECT YOUR ASSETS



ThermoTron 350 Product Data Sheet:

ThermoTron 350 is a High-temperature wet Insulation System intended use for Insulation and splashzone protection of risers, hull piping, and Insulation for Subsea jumpers, with an internal operating temperature up to 350 F. This product consists of three layers, a corrosion resistant layer, a bonding agent layer, and a high temperature high density elastomer layer.

The ThermoTron 350 insulation system has 60 years of experience built into its technology. The insulation was designed to perform in harsh subsea environments. The three-layer coating system provides corrosion protection and excellent thermal insulation properties. The system is seawater resistant. It will also provide excellent resistance to weathering, fungus, and marine life.

It consists of three layers that are vulcanized to the steel pipe surface the first layer is a high operating temperature corrosion coating that provides the pipe surface with a film that is highly resistance to chemical attack and to cathodic disbondment. The second layer consists of a bonding agent that works as a bonding layer between the ThermoTron 350 insulation and the first layer of corrosion coating. The third layer consists of extruded ThermoTron 350 1" thick or depending on the service conditions the thickness could vary. The function of the third layer is to provide the system with excellent thermal insulation properties and mechanical protection.

ThermoTron 350 is applied in our plants located in south central, Louisiana, to pipe of practically any length in diameter. The most common coating thicknesses is 1", although it can be applied in almost any thickness.

We also manufacture ThermoTron 350 half-shell sleeves which can be applied in the field. The sleeves are used where more than one joint of pipe is needed for protection i.e. Flowlines. They fit over the welded areas of the pipe and are bonded to the pipe with a two-part structural adhesive.

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SUBSEA THERMAL INSULATION: A NEW, COMPLETE, ELASTOMERIC SOLUTION

TYPICAL APPLICATIONS:

- Wet Insulation System for Production Risers
- Wet Insulation System for Hull piping
- Wet Insulation System for Spools
- Wet Insulation System for Jumpers

HERMOTRON 350

TYPICAL PROPERTIES	STANDARD	UNIT	VALUE
Density	ASTM D 412-0ae2	g/cm ³	1.10
Weight Per Cu Ft	N/A	lbs	68.33
Shore Durometer	ASTM D 2240	SHORE	75
Tensile Strength	ASTM D-624-C	PSI	2200
Ultimate Elongation	ASTM D 412-0ae2	%	400
Volume Resistivity	ASTM D-257	Ohm-cm	8.34E+06
Tear Resistance	ASTM D624-00(2007)	lbf/in	208
Compression Set	ASTM D395-02 B 22h at 350°F	%	30
Taber Abrasion	ASTM D 3389-10 C17 stone for 5000 cycles	Mg/rev	.012
Sea Water absorption	BSI BS ISO 1817	%	5.1
Specific Heat DSC	ASTM D1269-01	J/g°C,25 °C	1.320
Peel Adhesion	ASTM D 429-02A	PPI	200
Operating Temperature	N/A	°F	350
Ozone Resistance	ASTM D 1149-99 100 pphm @ 40C for 70 hrs	N/A	Pass no cracks
Coefficient of Friction Static	ASTM D 1894-99	μ	.832
Coefficient of Friction Dynamic	ASTM D 1894-99	μ	1.32
Thermal Conductivity wet K-Value	N/A	W/mk	.30
Thermal Conductivity dry K-Value	N/A	W/mk	.27