

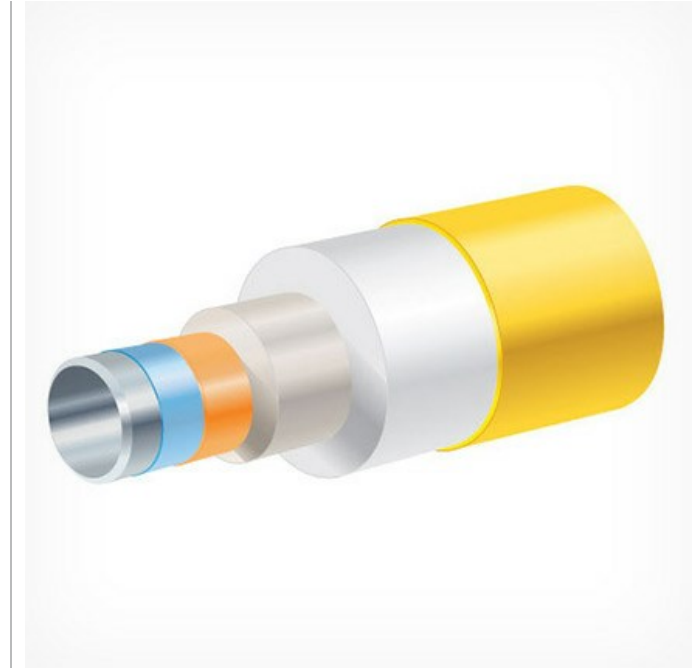
Thermotite (Polypropylene Foam)

Polypropylene Insulation Systems

Thermotite® is a polypropylene based foam subsea insulation system designed for flow assurance.

System Description:

- Layer 1,2,3: 3-layer anti-corrosion system - Fusion Bonded Epoxy (FBE), PP co-polymer adhesive and solid PP
- Layer 4: Thermal insulation - PP foam
- Layer 5: Mechanical and UV protective layer - solid PP



Superior Insulation Properties And Unmatched Mechanical Performance

- Lower thermal conductivity results in lower achievable U values
- Extended cool-down time
- The system can be installed using all subsea laying methods including reeling, S-lay and J-lay
- Mechanically resilient product constructed from impact resistant ductile materials
- The system is extensively tested for tensioner clamp loads, axial shear loads and fatigue, delivering excellent performance

FJ Compatibility

- Thermotite® IMPP
- Nemo 1.1
- Nemo 2.1
- Hybrid Solution

Value Added Services

- Streamlined delivery schedules, product standardization and quality assurance practices due to simplified processing operations
- Universally and readily available project management and logistics support from multiple existing plant locations

CAPABILITY/PROPERTY	THERMOTITE® (POLYPROPYLENE FOAM)
Minimum pipe diameter	50 mm (2")

CAPABILITY/PROPERTY	THERMOTITE® (POLYPROPYLENE FOAM)
Maximum pipe diameter	600mm (24")
Minimum operating temperature	-35°C (-30°F)
Maximum operating temperature	150°C (302°F)
Minimum pipe length	9 m (30')
Maximum pipe length	26 m (85')
Thermal conductivity (k-value)	0.165-0.185 W/m*k
Overall heat transfer coeff. (U-value)	>2.5W/m ² *K (.44BTU/hr*ft ² *F)
Water depth	<500m(1640') *Typical water-depth. contact expert for more information

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