

ThermoFlo

Polyurethane Insulation Systems

ThermoFlo® is a polyurethane-based syntactic foam subsea insulation system designed for flow assurance.

System Description:

- Layer 1: Anti-corrosion - Fusion Bonded Epoxy
- Layer 2: Insulation - molded glass syntactic polyurethane

Superior Insulation Properties And Unmatched Mechanical Performance

- Lower thermal conductivity results in lower achievable U values
- Extended cool-down time

Installation

- Can be installed using all subsea laying methods including reeling, S-lay and J-lay
- The elastomeric nature of the material provides excellent impact resistance and fatigue life

FJ Compatibility

- ThermoFlo® Joint
- Nemo 1.1

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	SHALLOW WATER THERMOTITE®(S)
Minimum pipe diameter	100 mm (4")
Maximum pipe diameter	600 mm (24")
Minimum operating temperature	-55°C (-67°F)
Maximum operating temperature	90°C (194°F) Wet

CAPABILITY/PROPERTY	SHALLOW WATER THERMOTITE®(S)
Minimum pipe length	1 m (3')
Maximum pipe length	13 m (43')
Thermal conductivity (K value)	0.155-0.17 W/m*k
Overall heat transfer coeff. (U value)	>2.0W/m ² *K (Specific to thermal design)
Water depth	<2800m (9200')

Last Updated: 12/18/2017 3:40:20 PM