

Syntactic Polyurethane Coatings

Insulation systems for thermal management of flowlines for offshore applications

ENERGY & MINING



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INSULATION, LLC

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Syntactic Polyurethane

Syntactic polyurethane materials are used as thermal insulation for offshore pipelines. The product is customized to take into account specific project requirements, such as water depth and thermal requirements. The product can be laid by all types of offshore lay barges.

Dimensional Properties

Description	Typical Value*
Minimum pipe diameter	60 mm (2 in)
Maximum pipe diameter	600 mm (24 in)
Minimum pipe length	9.0 m (30 ft)
Maximum pipe length	13 m (40 ft)

*Typical values are quoted and vary with the grade of material selected.

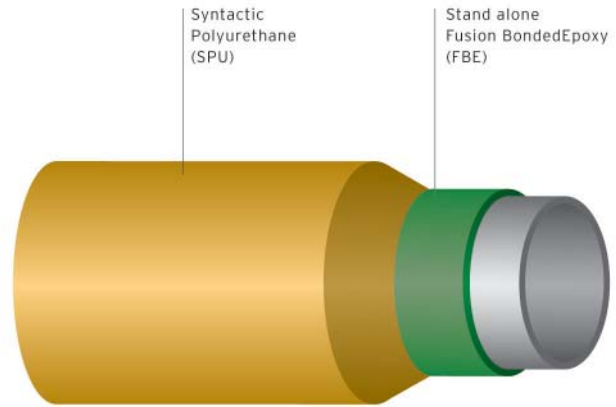
Operating Properties

Description	Typical Value*
Thermal conductivity	0.10 to 0.17 W/m·K
U Value range	1.5 W/m ² ·K and higher
Minimum operating temperature	-35 °C (-31 °F)
Maximum operating temperature	115 °C (239 °F)
Water depth range	0 to 3,000 m (9840 ft)

*Typical values are quoted and vary with the grade of material selected.

Applications and Standards

The product is applied by an injection molding process to achieve the specific requirements of project based specifications.



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