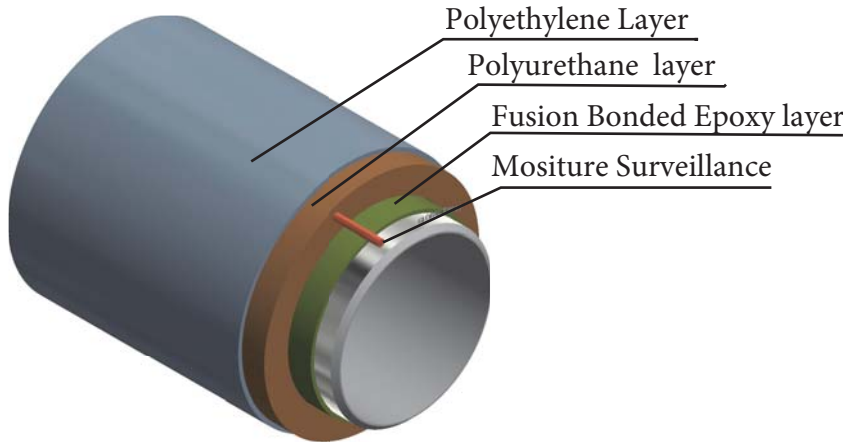


FBE-PU-PE With Built-in Moisture Surveillance Pipe

Fusion Bonded Epoxy Polyurethane Polyethylene Coating embedded with Moisture Surveillance



Applications



Related Standards and Specifications

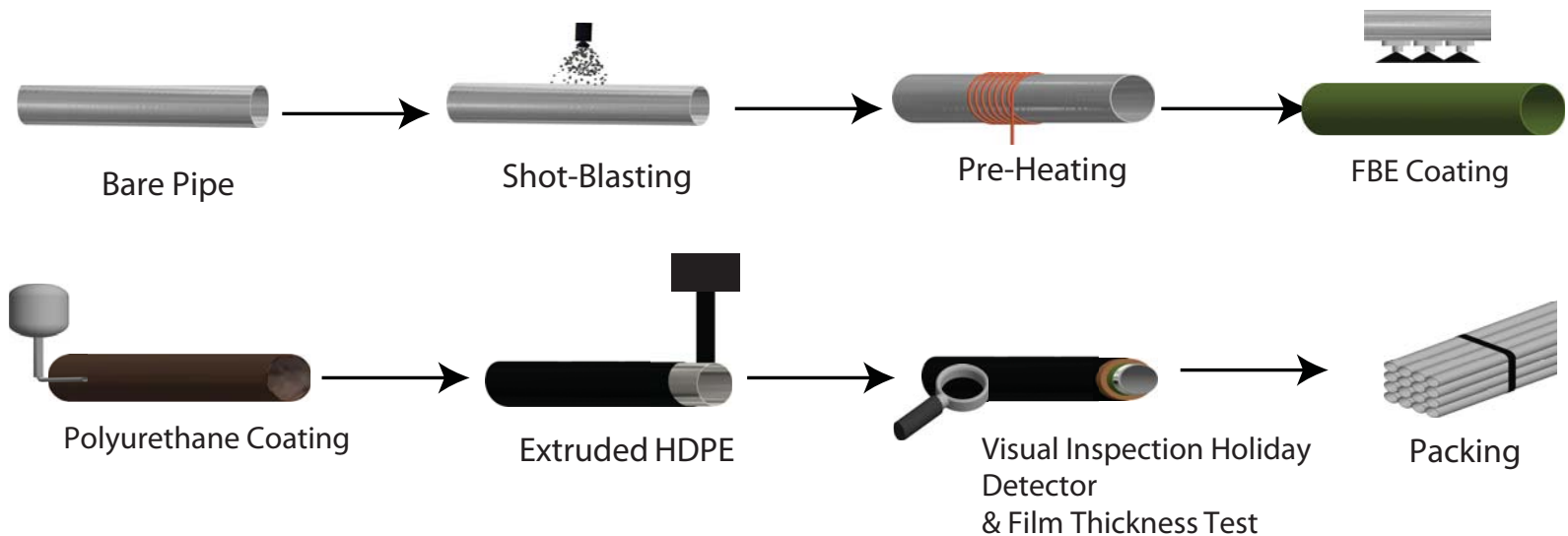
- ASTM C591
- ASTM D3350
- ASTM C1029
- EN 253

Additional standards may also apply after contacting an Insupipe sales agent

Product Description

This innovative Thermal Insulation coating enables monitoring and detection of Leaks before damages occur. Leak Detection Sensor Cable embedded in the Polyurethane foam after the anti-corrosion layer of fusion Bonded Epoxy based followed by high density polyethylene casing that keeps any leakage trapped inside is designed for great insulation protection.

Process Flowchart of FBE-PU-PE Coating



Contact us

Al Mafrq Industrial City
Muwaqqar Industrial City
Tel:962 6 5353287 - Fax:962 6 5335395



www.gsest.com
www.insupipe.com

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Thickness				
Layers	1st layer	2nd layer	3rd layer	Moisture Surveillance
Thickness	FBE	Polyurethane foam	HDPE Casing	Copper or Ni/Cr
	A minimum of 8-12 mil	20-120 mm	2-13 mm	one or more small (on the order of 1.5 mm)
*Please refer back to one of our sales agent to be consulted to ensure that the correct formulation will be provided.				
Moisture Surveillance System				
Electrical Insulated wire with Ohmmeter and alarm panels				
Tests				
Tests			Standards	
Coating Thickness			DIN 30670	
Holiday Test			ASTM D3350	
K-factor			ASTM C-591	
Polyurethane Application			ASTM C1029/C-591	
Maximum operating temperature of Polyurethane				
-320°F to 250°F				
Polyurethane Rigidity and Density				
Shall be polyurethane foam either spray applied or Performed rigid. Insulation shall be rigid, 90%- 95% with a 2.0 to 3.0 lbs per cubic foot density				
K-factor of Polyurethane				
0.15 @ 75°F				
Buried/ Unburied Applied				
Both ground and aboveground installations				
Lambda Value				
$(\lambda_{50}) 0,026 \text{ W/mK}$				
U-Value				
between 0,2 - 0,72 W/M2k				

*For additional information Please see our FBE-PU-PE Coating Data Sheet or contact our sales agent.

** Leak Detection system can be supplied as optional extras for all of our insulated pipe systems.

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