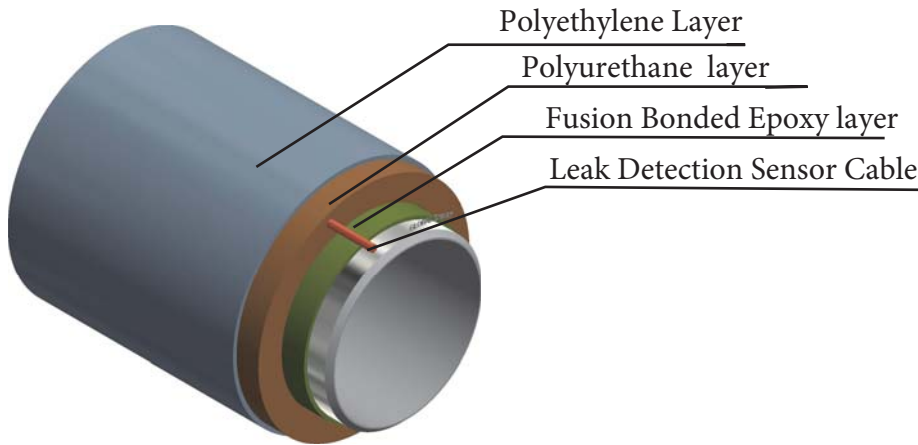


# FBE-PU-PE With Built-in Leak Detection Pipe

Fusion Bonded Epoxy Polyurethane Polyethylene Coating embedded with Leak Detection



## Applications



## Related Standards and Specifications

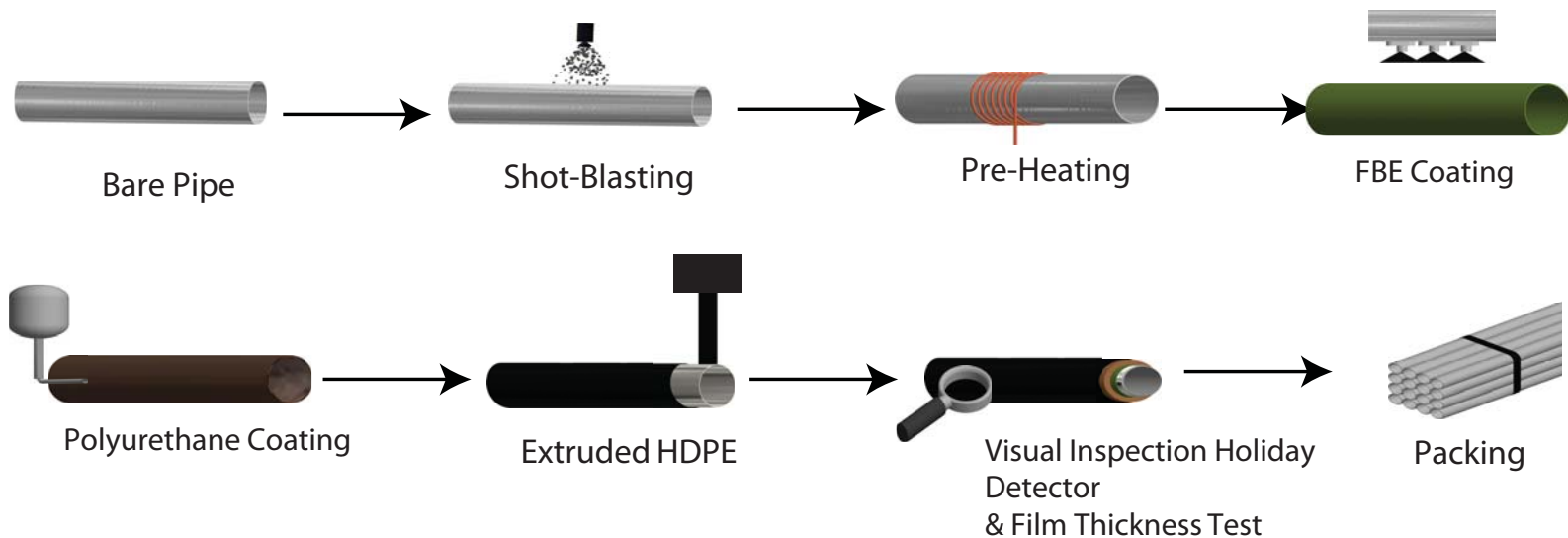
- ASTM C591
- ASTM D3350
- ASTM C1029
- DIN 30670

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](http://www.gsest.com)  
[www.insupipe.com](http://www.insupipe.com)

# FBE-PU-PE With Built-in Leak Detection Pipe



Fusion Bonded Epoxy Polyurethane Polyethylene Coating embedded with Leak Detection

Thickness						
Layers	1st layer	2nd layer (Polyurethane foam)		3rd layer (HDPE)		Leak Detection Cable Sensor
Thickness	FBE	Pipe Size (in)	Insulation Thickness (in)	Jacket OD (in)	Jacket Thickness (in)	Copper or Ni/Cr
	A minimum of 8-12 mil	1 - 8	1	OD < 12	0.125	one or more small (on the order of 1.5 mm) uninsulated wires
		10 - 12	1.5	12 < OD < 20	0.15	
		14 - 36	2	OD > 20	0.175	
*Please refer back to one of our sales agent to be consulted to ensure that the correct formulation will be provided.						
Leak Detection 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						

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.

## Contact us

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