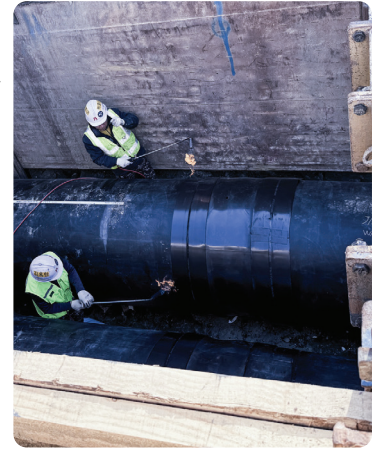


INNOSEAL

Advanced 2-Layer Heat Shrinkable Sleeve for Pre-Insulated Pipe Joint

Innoseal heat shrinkable sleeve is a product for sealing the joints of district heating pre-insulated pipelines. Composed of a radiation-cross linked backing layer and thermoplastic resin, it is optimized for polyethylene sealing and maintains the shear strength and water-proof function of the pre-insulated pipeline joints for a long period of time. Depending on the situation, Innoseal heat shrinkable sleeves may be installed to withstand mechanical shock. When buried underground, it protects water ingress despite the movement of pipelines depending on the environment and the season, and is a product that meets the international standard EN 489:2019).

- 1)EN489:2019 District heating pipes - Pre-insulated bonded pipe systems for directly buried hot water works
- Joint assembly for steel service pipes, polyurethane thermal insulation, and outer casing of polyethylene



Proven Track Record & High Performance

- Comply with upgraded EN 489 standard - 300 Cycles
- Used in Korea District Heating Network nationwide for years

Applied on Special Section

- Distinction - Applied to the joint area of pre-insulated pipelines based on excellent durability and water resistance

Convenient Application Conditions

- Rapid application
- Easy application using conventional equipment

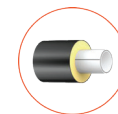
High Durability & Easy Manageability

- Maintains shear strength and water barrier between pre-insulated pipeline casing joint parts

Supplied in Bulk Rolls

- Convenience & economical
- Sleeve length can be adjusted and cut in the field according to the pipe diameter which results in simple inventory management

Application Area



District Heating & Cooling



Onshore



Offshore

INNOSEAL

Advanced 2-Layer Heat Shrinkable Sleeve for Corrosion Prevention

PRODUCT DATA SHEET

Adhesive Properties	Test Method	Typical Values	
Softening Point	ASTM E28	92 °C	
Lap Shear @ 23°C	ISO 21809-3	2.00 N/mm ²	
Backing Properties	Test Method	Typical Values	
Tensile Strength	KSM ISO 527-3	> 25 MPa	
Elongation	KSM ISO 527-3	> 400%	
Hardness, Shore D	KSM ISO 868, Shore D	> 50 Shore D	
Density	ISO 1183-1	0.95 ± 0.2 g/cm ³	
Sleeve Properties	Test Method	Typical Values	
Peel Strength to Pipe Surface @ 23°C	EN 12068	> 90 N/cm	
Impact Resistance	EN 12068	> 19 J	
Indentation Resistance	EN 12068	Pass	
Cathodic Disbondment @ 23°C, 28 days	EN 12068	< 4 mm rad	
Thickness		S	P
Backing (nominal thickness as supplied)		1.00 mm	1.20 mm
Adhesive (nominal thickness as supplied)		1.30 mm	1.60 mm

⌘ Actual temperature rating depends on project requirements and conditions.

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ISO 9001:2015
ISO 14001:2015
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PDS-IP-INNOSEAL-KB15-REV00

Innochem warrants that the product conforms to its chemical and physical description and its appropriate for the use stated on the technical data sheet when used in compliance with Innochem written instructions. Since many installation factors are beyond the control of Innochem, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Innochem liability is stated in the standard terms and conditions of sale. Innochem makes no other warranty either expressed or implied. All information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.