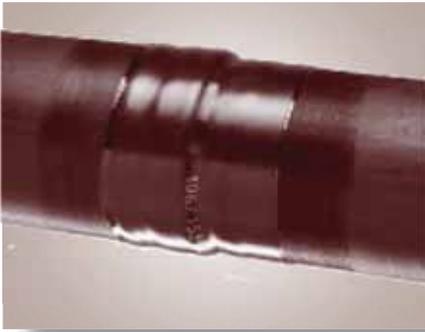


Tubular sleeve for sealing of pipe joints in pre-insulated pipe systems.



## Product description

TPSM-PE with **PCI (Permanent Change Indicator)** sealing of pre-insulated pipe.

**Adhesive:** Temperature-stabilized, high strength, visco-elastic sealant.

**Backing:** Radiation cross-linked, high density polyethylene with **PCI** (Permanent Change Indicator).

TPSM-PE is a heat-shrinkable, tubular sleeve for joint sealing of oversized and heat-shrinkable casings in standard conditions. Generally, TPSM-PE is used as an additional outside seal against moisture ingress for small and medium diameter heat-shrinkable casings.

During shrinking, the adhesive easily melts and flows, filling in the transition between the pipe jacket and the oversized casing. The adhesive ensures a firm bond between the sleeve and the pipe/casing surface. The dimpled backing permanently indicates that the sleeve is completely shrunk.

## Product features/benefits

- **High shrink force HDPE backing**  
Creates tight, high performance bond and a strong seal.  
Secures anchoring of casing and pipe jacket.
- **High mechanical resistance HDPE backing**  
Easily survives temperature cycling, soil stresses, pipe movements & chemical attack. Extremely resistant!
- **No special installation equipment required**  
Easy installation: just 'slide over & shrink'.
- **Individual packaging precludes contamination prior to application**  
Stays clean and uncomplicated. Less work.
- **Permanent Change Indicator**  
Ensures correct application heat & allows easy post-heat inspection.  
Reliable inspectability at any time.

## Product selection guide

	TPSM-PE
<b>Max operating temperature</b>	50°C (50°C under expansion cushions)
<b>Type joint</b>	Oversized casing, Heat-shrinkable casing
<b>Min preheat temperature</b>	60°C
<b>Recommended pipe preparation</b>	Cleaning & Abrading
<b>Soil stress restrictions</b>	Moderate
<b>Pressure testing after installation</b>	No (foaming before installation)
<b>Product recommended for</b>	Service lines
<b>Performance</b>	> 50 cycles, 8% sand humidity, FFI

## Product thickness

	TPSM-PE
<b>Backing (as supplied)</b>	0.65 - 0.75 mm
<b>Backing (fully free recovered)</b>	1.0 mm
<b>Elastomeric sealant (as supplied)</b>	0.8 mm

## Product properties: TPSM-PE

Property	Test method	Typical value
<b>Casing material</b>		
Tensile strength	ASTM D-638	3300 psi (22.8 MPa)
Elongation	ASTM D-638	650%
Hardness, Shore D	ASTM D-2240	55
Shrink force	ASTM D-638 150°C	40 psi
Moisture absorption	ASTM D-570	0.05%
<b>Adhesive</b>		
Softening point	ASTM E-28	135°C
Lap shear	ISO 4587	28 N/cm <sup>2</sup> (40 psi)
<b>Sleeve</b>		
Peel to PE	ASTM D1000	87.5 N/cm (50 lbs/in. width)
Soil stress resistance	EN 489 8.0% sand humidity	min. 50 cycles
External pressure test after soil stress	DS 2182 23°C, 0.7 bar, 24 hrs.	Pass
Low temperature impact	-14° C, 1 kg at 1 m height, Ø 22mm 1 mm/min	Pass

## Ordering information

### TPSM-PE type products are available:

- as ready-to-size tubular sleeve

### Example: TPSM-210/135-150PE160/180

		Standard ordering options
200/135	Recovery ratio in mm	see application table AT-TPSM-PE-REV1-0409
150	Sleeve width in mm	see application table AT-TPSM-PE-REV1-0409
PE160/180	outside diameter(s) of insulated pipe(s)	see application table AT-TPSM-PE-REV1-0409

For proper product installation, see latest installation instruction.



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