



Insulated Pipe End Cap for sealing the pipe ends of pre-insulated pipes.

Product description

IPEC Insulated Pipe End Cap (water stop).

Adhesive (Additional kit component): High temperature high viscosity sealant strips.

Backing: Heat-shrinkable, radiation cross-linked, high density polyethylene.

The IPEC is a heat-shrinkable product, made from either extruded tubing (small sizes) or bonded sheet (large sizes). IPEC protects thermal insulation of pipes against moisture penetration during operation at temperatures of up to 130°C (266°F) as well as during transport and storage. As a water stop, the intent of IPEC is to limit the damage to insulation of in-service pipes to a small area i.e. one pipe length or to a small joint area.

The elastomeric adhesive is specially designed for high temperature performance.

The uncoated edges prevent the sleeve from slipping off the pipe casing during installation.

IPEC is installed using propane gas torches. After positioning the S1113 sealant strip onto the jacket and service pipe, the expanded part is positioned over the pipe ends.

The IPEC is then heated with a regular gas torch. The high shrink ratio backing shrinks and forms a tight fit onto the pipe and jacket.

During recovery, the adhesive softens and flows to form a waterproof seal.

Product features/benefits

- **High shrink ratio backing offering optimum conformability to transitions and variations**
Easily accommodates to dimensional variations and pipe ovality.
- **One product covering several different pipe sizes**
Reduces inventory costs.
Simplifies logistics.
- **High performance against water ingress**
Thermal Insulation remains functional.
- **No special equipment required**
Makes installation fast, easy and low cost.

Product selection guide

	IPEC
Max. operating temperature	130°C (266°F)
Compatible	PE outer jacket, Steel, Copper
Min. preheat temperature	60°C (140°F)
Recommended pipe preparation	Cleaning & Abrading
Soil stress restrictions	None

Product thickness

	IPEC
Backing (as supplied)*	0.020 - 0.065 in. (0.5 - 1.65 mm)
Backing (fully free recovered)	0.079 - 0.098 in. (2.0 - 2.5 mm)
Adhesive (as supplied)	0.039 in. (1.0 mm)

*Backing thickness is function of the diameter

Product properties: IPEC

Property	Test method	Typical value
Backing		
Tensile strength	ISO R527 @ 50 mm (2")/min.	20 MPa
Elongation	ISO R527	400%
Hardness, Shore D	ISO 868	54
Shrink force	ASTM D-638 150°C (302°F)	40 psi
Thermal ageing	ISO 188 @ 150°C (302°F), 7 days	
Followed by elongation	ISO R527 @ 50 mm (2")/min.	350%
Adhesive		
Softening point	ASTM E-28	120°C (248°F)
Shear strength	ASTM D-1002	70 N/cm ²
Peel strength	DIN30672	30 N/cm
Sleeve		

Special functional tests are described in the technical specification RUD 5167.

Ordering information

IPEC type products are available:

- as ready-to-size tubular sleeves
- 2 rolls S1113-30x1x30000 mastic strips are included in the over-pack box.

Example: IPEC- 2375-1.5

			Standard Ordering options
2.375	Service pipe diameter in inches		See application table
1.5	Insulation thickness in inches		See application table

Application Table

IPEC-		Service pipe OD		Jacket OD		Application range		Insulation	
		inch	mm	inch	mm	inch	mm	inch	mm
2.375	-1.5	2.375	60	4.375	111	1.0	25		
2.875	-2.0	2.875	60	4.875	124	1.0	25		
3.500	-2.5	3.500	89	6.500	165	1.5	38		
4.500	-2.5	4.500	114	7.500	191	1.5	38		
6.625	-2.0	6.625	168	9.625	245	1.5	38		
	-3.0	6.625	168	12.625	320	3.0	76		
8.625	-2.0	8.625	219	11.625	295	1.5	38		
	-3.0	8.625	219	14.625	370	3.0	76		
10.750*	-1.5	10.750	273	13.750	350	1.5	38		
	-2.0	10.750	273	14.750	375	2.0	51		
	-2.5	10.750	273	15.750	400	2.5	64		
	-3.0	10.750	273	16.570	425	3.0	76		
12.750*	-1.5	12.750	324	15.750	400	1.5	38		
	-2.0	12.750	324	16.750	425	2.0	51		
	-2.5	12.750	324	17.750	450	2.5	64		
	-3.0	12.750	324	18.750	476	3.0	76		
14.000*	-1.5	14.000	356	17.000	432	1.5	38		
	-2.0	14.000	356	18.000	457	2.0	51		
	-2.5	14.000	356	19.000	483	2.5	64		
	-3.0	14.000	356	20.000	508	3.0	76		
16.000*	-1.5	16.000	406	19.000	483	1.5	38		
	-2.0	16.000	406	20.000	508	2.0	51		

* Bonded sheet products.

For other pipe diameter and insulation thickness combinations, contact Tyco Adhesives representative.

For proper product installation, see latest installation instruction.

Tyco Adhesives warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the technical data sheet when used in compliance with Tyco Adhesives' written instructions. Since many installation factors are beyond our control, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection therewith. Tyco Adhesives' liability is stated in the standard terms and conditions of sale. Tyco Adhesives 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.