

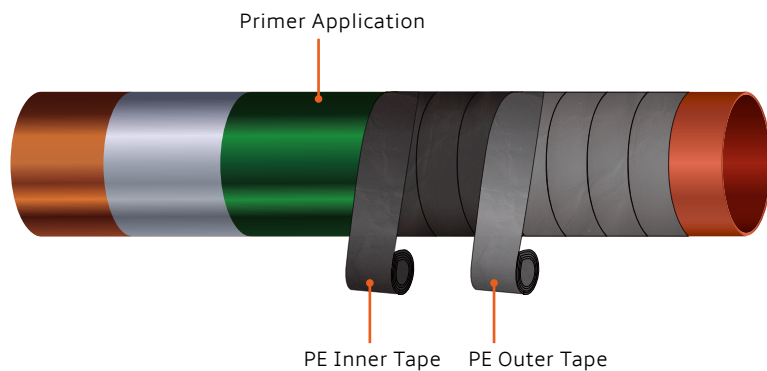


CORROSION-RESISTANT POLYETHYLENE (PE) INNER TAPE

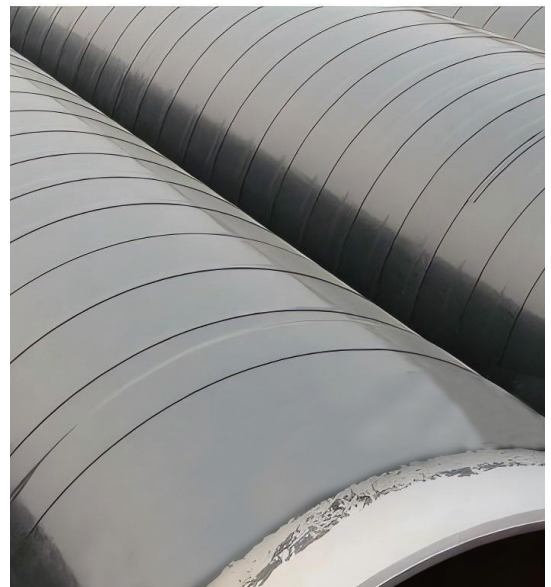
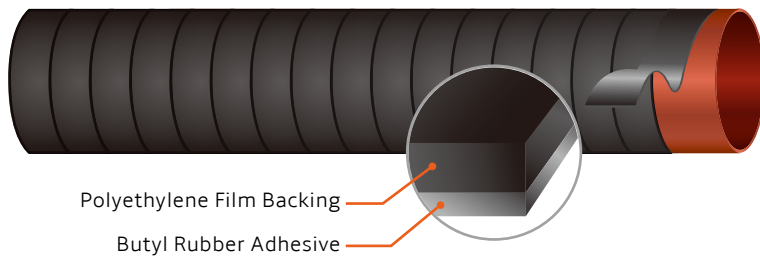
PRODUCT DATA SHEET

CORROSION-RESISTANT POLYETHYLENE (PE) INNER TAPE

YUXI's corrosion-resistant polyethylene (PE) inner tape is a cold-applied tape specifically designed to protect external corrosion of pipelines, including oil pipelines, natural gas pipelines, water pipelines and any other underground or overhead steel pipelines. Its application should follow the application of primer and precede the application of the PE outer tape.



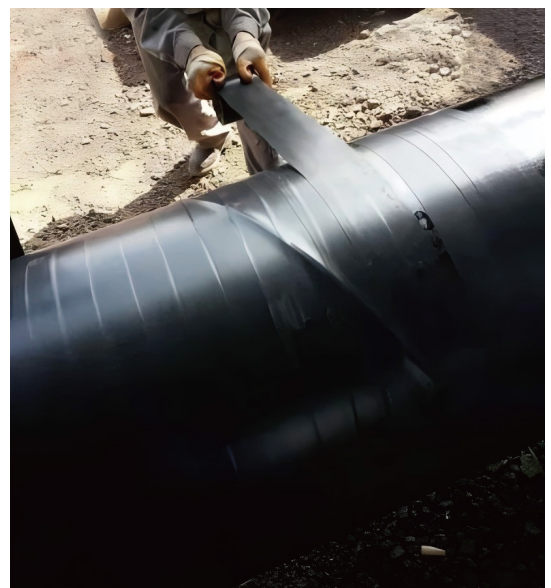
The tape consists of two parts: an adhesive layer and a film backing layer. The film backing layer is a special blend of stabilized polyethylene, while the adhesive layer is made of butyl rubber.



Polyethylene Film Backing Thickness	Butyl Rubber Adhesive Thickness	Tape Thickness
0.305 mm (12 mils)	0.205 mm (8 mils)	0.51 mm (20 mils)
0.33 mm (13 mils)	0.305 mm (12 mils)	0.635 mm (25 mils)
0.254 mm (10 mils)	0.508 mm (20 mils)	0.762 mm (30 mils)

FEATURES

- High bond strength
- Ease application by hand or machine
- Long-lasting corrosion protection
- Strong resistance to the cathodic disbondment
- Good flexibility and uniform thickness
- Can be applied over a wide temperature range



CORROSION-RESISTANT POLYETHYLENE (PE) INNER TAPE

PHYSICAL PROPERTIES

Technical Measurement	Test Method	Performance		
Tape Thickness	ASTM D1000	0.51 mm (20 mils)	0.635 mm (25 mils)	0.762 mm (30 mils)
Tensile Strength	ASTM D1000	47 N/cm (429 oz/in)	52 N/cm (475 oz/in)	68 N/cm (621 oz/in)
Yield Strength	ASTM D1000	40.5 N/cm (370 oz/in)	45.3 N/cm (414 oz/in)	50 N/cm (457 oz/in)
Elongation at Break	ASTM D1000	400%	500%	500%
Peel Strength to Primed Steel	ASTM D1000	26 N/cm (238 oz/in)	33 N/cm (302 oz/in)	35 N/cm (320 oz/in)
Water Vapor Transmission Rate	ASTM F1249	0.1 g/m ² /24 h		
Water Absorptivity	ASTM D570	< 0.1%		
Service Temperature	/	-40 °C ~ 85 °C		
Application Temperature	/	-10 °C ~ 60 °C		

ELECTRICAL PROPERTIES

Technical Measurement	Test Method	Performance		
Tape Thickness	ASTM D1000	0.51 mm (20 mils)	0.635 mm (25 mils)	0.762 mm (30 mils)
Dielectric Strength	ASTM D1000 / D149	25.5 KV	27 KV	29 KV
Cathodic Disbandment	ASTM G8	6.4 mm (0.25")		
Volume Resistivity	ASTM D257	2.2 x 10 ¹² Ω.cm		

SPECIFICATION

Item No.	Tape Thickness	Width	Length
YX-IPET-50	0.51 mm (20 mils)	50 mm (2")	30/50/100 m (98/164/328 ft.)
YX-IPET-100	0.635 mm (25 mils)	100 mm (4")	30/50/100 m (98/164/328 ft.)
YX-IPET-150	0.762 mm (30 mils)	150 mm (6")	30/50/100 m (98/164/328 ft.)

Note: All dimensions shown above are nominal. The information provided is subject to change without notice.





Industrial Corrosion Control Solutions Provider

Established in 2003, YUXI has over a 20-year heritage of innovation in corrosion control science and technology. We're a spirited team of ambitious thinkers and pioneer sheep with a common goal in mind: protect our clients' assets from corrosion with cost-saving measures.

We have the most comprehensive catalog of cathodic protection materials including anodes, transformer rectifiers, backfills, coatings, etc. Our anodes and supplies are manufactured to strict quality standards through an ISO 9001 quality management system and are guaranteed to offer excellent performance in the industry.



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www.yuxi-anode.com

5/F, Building No.4,
1819 Yongmao East Road,
Ningbo 315201, China

E-mail: info@yuxi-anode.com

Tel: +86 (574) 83882233

Fax: +86 (574) 83882238