# Quality manufacturers of Pipe Coating Materials





# **T100 Inner Tape**

### Coating System for pipelines-Inner Layer

T100 series are 2-Ply polyethylene (PE) anticorrosive adhesive tapes. It is Cold wrap tape coating system for Corrosion Protection of Water, Oil and Gas Pipelines.

The inner-layer tape shall be applied after the Primer and before the Outer-layer tape.

In order to promote high adhesion of the coating system to the pipe, the more higher Solid content primer is recommended. More Primer Solid content, providing maximum handling for the coating system with PE tapes.

### **Features**

Excellent adhesion to pipe and self.

Can be applied over a wide temperature range .

Good conformability and consistent uniform thickness.

Easily applied with no special equipment.

Compatible with common pipe coatings.

Excellent resistance to cathodic disbonding.

Meets ASTM D 1000 and EN12068 Standard.

Cold applied.

### **Technical Data sheet**

Туре	T138-15	T145-18	T151-20	T164-25	T176-30
Total thickness	0.381mm	0.454mm	0.510mm	0.635mm	0.762mm
Polyethylene Film	0.254mm	0.254mm	0.305mm	0.330mm	0.254mm
Butyl Rubber Adhesive	0.127mm	0.200mm	0.205mm	0.305mm	0.508mm
Elongation at break	250%	260%	280%	300%	300%
Tensile Strength	54.0N/cm	55.0N/cm	61.5 N/cm	64.5N/cm	68.0N/cm
Yield Strength	36.0N/cm	36.6N/cm	40.5 N/cm	43.0N/cm	45.3N/cm
Peel Adhesion to Primed Pipe	23.0N/cm	26.0N/cm	26 .0N/cm	34.0N/cm	35.0N/cm
Adhesion to backing at	5.1 N/cm	5.2N/cm	5.2N/cm	5.4N/cm	5.4 N /cm
Dielectric Strength	23.0 KV	25.0 KV	25.5 KV	27.0 KV	29.0 KV
Cathodic Disbondment	6.4mm				
Volume Resistivity	≥2.2X10 <sup>15</sup> ohm.cm				
Water Vapor Transmission rate	≤0.15g/m²/24h				
Water Absorption Rate	≤0.06%				
Application Temperature	-34 ºC to +85 ºC				
Max Serve Temperature	+85 ºC				
Available Roll Size(width* length)	50 to 750mm X 15 to 240 m				
Color	Black				

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## **T100 Inner Tape**

### **Text Data sheet**

Physical Properties	Test Method	Typical Value	
		English	Metric
Total thickness	ASTM D 1000	25 mils	0.635mm
Backing thickness	ASTM D 1000	13 mils	0.330mm
Adhesive thickness	ASTM D 1000	12 mils	0.305mm
Width	-	9"	228mm
Length	-	600′	183m
Backing color	-	Black,	Black
Tensile strength	ASTM D 1000	36.3 lbs/in	64.5 N/cm
Elongation	ASTM D 1000	280%	280%
Peel Adhesion to primed steel pipe	ASTM D 1000	311oz/in	34 N/cm
Cathodic Disbondment	ASTM G 8	0.252 in radius	6.4mm
Dielectric Strength	ASTM D 149	27.0 KV	27.0 KV
Volume Resistivity	ASTM D 257	2.4×10 <sup>15</sup> ohm.cm	2.4×10 <sup>15</sup> ohm.cm
Water Absorptivity	ASTM D 570	0.06%	0.06%
WaterVaporTransmissioinRate24 h	ASTM F 1249	0. 083 g/100sq in/24hr	0.13 g/ m <sup>2</sup> .24h
Application Temperature	8	-29ºF to 185 ºF	-34ºC to +85 ºC
Max Service Temperature	-	185ºF	+85 ºC

(Width of Coating in inches) ×(Area of pipe in square feet)\*
------Squares \*\*of Coating Required
(Width of coating in inches-Overlap in inches) ×100

- \*Area of pipe in square feet=(Diameter in inches)/12×3.1416×(Length in feet)
- \*\*One square=One hundred square feet=9.29 square meters

(Width of Coating in mm) ×(Area of pipe in square meter)\*
------Square meter of Coating Required
(Width of coating in mm-Overlap in mm)

<sup>\*</sup>Area of pipe in square meter=(Diameter in mm)/1000×3.1416×(Length in meter)