

GTS-80

Global Transmission Sleeve

The GTS-80 system provides superior corrosion protection and excellent bonding on pipelines operating up to 80°C. GTS-80 has been designed with a unique adhesive technology that remains “open” longer than traditional adhesives. Also, special surface active agents allow bonding to lower surface energy coatings (such as polypropylene). As a result, lower preheat temperatures are required to attain true adhesive wet-out and superior bonding to PE and FBE surfaces is achieved.



Superior Force Cured Epoxy

- Proven method of force curing the liquid epoxy to the steel allows the installer to “pre-inspect” the joint prior to sleeve application
- Force cured epoxy cannot be displaced during the aligning and shrinking stages of the sleeve installation

Unique Adhesive Technology

- Allows for lower installation pre-heat temperatures and superior bonding to PE and FBE coatings
- Adhesive has been formulated to bond directly to the main line coating; epoxy is applied to the steel only

Flexible Installation

- For added flexibility, the sleeve can be supplied as bulk rolls or pre-cut to the required pipe size

Long Term Corrosion Protection

- Provides a protective coating with the structural integrity of a seamless tube, providing excellent resistance to cathodic disbondment and excellent durability against abrasion and chemical attack

Saves Time & Money

- Lower pre-heat means less time heating

Applications



Oil & Gas



Offshore Pipelines



Onshore Pipelines



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Sleeve Operating Characteristics	Test Method	Typical Values	
Pipeline Operating Temp.		Up to 80°C (175°F)*	
Minimum Installation Temp.		110°C (230°F)	
Main Line Coating Compatibility		PE, HPPC, FBE, PP	
Adhesive Properties			
Softening Point	ASTM E28	124°C	
Lap Shear	ISO 21809-3	365 N/cm ²	
Backing Properties			
Tensile Strength	ASTM D638	24 MPa	
Elongation	ASTM D638	600%	
Hardness	ASTM D2240	55 Shore D	
Volume Resistivity	ASTM D257	10 ¹⁷ ohm-cm	
Sleeve Properties			
Adhesion Strength @ 23°C	ISO 21809-3	50 N/cm	
Impact Resistance	ISO 21809-3	>15 J	
Indentation Resistance	ISO 21809-3	1.0** mm (pass)	
Cathodic Disbondment @ 23°C, 28 days	ISO 21809-3	< 3 mm rad	
Low Temp. Flexibility	ASTM D2671-C	>-26°C	
Thickness	T	L	S
Backing (nominal thickness as supplied)	0.9 mm (0.035")	0.9 mm (0.035")	1.1 mm (0.045")
Adhesive (nominal thickness as supplied)	0.9 mm (0.035")	1.3 mm (0.050")	1.5 mm (0.060")

* Actual temperature rating is dependant on specific project requirements and conditions. Please consult your local Canusa representative.

** mm remaining

Epoxy usage can be referenced on the Liquid Epoxy Product Data Sheet.

Since 1967, Canusa-CPS has been a leading developer and manufacturer of specialty pipeline coatings for the sealing and corrosion protection of pipeline joints and other substrates. Canusa-CPS high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate many specific project applications.

The product information shown here is intended as a guide for standard products.

Consult your Canusa representative for specific projects or unique applications.



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Quality Management system registered to ISO 9001

Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the product data sheet when used in compliance with Canusa's 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. Canusa's liability is stated in the standard terms and conditions of sale. Canusa makes no other warranty either expressed or implied. All information contained in this data sheet is to be used as a guide and is subject to change without notice. This data sheet supersedes all previous data sheets on this product. E&OE

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