

GTS-50

Global Transmission Sleeve

The GTS-50 system provides superior corrosion protection and excellent bonding on pipelines operating up to 55°C. GTS-50 has been designed with a unique adhesive technology that remains open longer than traditional adhesives. GTS-50 is a cost effective alternative for lower temperature pipelines while maintaining the highest levels of corrosion protection.

Flexible Installation

- GTS-50 can be used as either a 2-layer or 3-layer sleeve system with the same low pre-heat temperature
- For added flexibility, the sleeve can be supplied as bulk rolls or pre-cut to the required pipe size

Saves Time & Money

- Lower pre-heat means less time heating
- Offers a cost-effective solution without compromising pipeline protection

Unique Adhesive Technology

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

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

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



Applications



Oil & Gas



Offshore Pipelines



Onshore Pipelines



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Sleeve Operating Characteristics	Test Method	Typical Values	
Pipeline Operating Temp.		Up to 55°C (131°F)*	
Minimum Installation Temp.		60°C (140°F)	
Mainline Coating Compatibility		PE, FBE	
Adhesive Properties			
Softening Point	ASTM E28	72°C	
Lap Shear @ 23°C	DIN 30672	60 N/cm²	
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	DIN 30672	35 N/cm	
Impact Resistance	EN 12068	Pass	
Indentation Resistance	EN 12068	Pass	
Cathodic Disbondment @ 23°C, 28 days with epoxy	EN 12068	3 mm rad	
Cathodic Disbondment @ 23°C, 28 days without epoxy	EN 12068	13 mm rad	
Low Temp. Flexibility	ASTM D2671-C	-32°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.

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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