

GTS-65 Global Transmission Sleeve

The GTS-65 system provides superior corrosion protection and excellent bonding on pipelines operating up to 65°C. GTS-65 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, PP 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, PP and FBE coatings
- Adhesive has been formulated to bond directly to the main line coating; epoxy is applied to the steel only

Flexible Installation

- GTS-65 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

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



GTS-65

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Sleeve Operating Characteristics	Test Method	Typical Values	
Pipeline Operating Temp.		Up to 65°C (150°F)*	
Minimum Installation Temp.		90°C (195°F)	
Main Line Coating Compatibility		PE, HPPC, PP, FBE	
Adhesive Properties			
Softening Point	ASTM E28	94°C	
Lap Shear @ 23°C	ISO 21809-3	245 N/cm ²	
Lap Shear @ 60°C	ISO 21809-3	8 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	>70 N/cm	
Impact Resistance	ISO 21809-3	>15 J	
Indentation Resistance	ISO 21809-3	0.65 mm (pass)	
Cathodic Disbondment @ 23°C, 28 days	ASTM G8	3 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.

† As a 3-layer system

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.