

GTS-PP-100

One-piece protective sleeve with pre-attached closure for high operating temperature offshore polyolefin pipelines

For more than 35 years, 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.

Product Description

The GTS-PP-100 system provides excellent adhesion and superior corrosion protection to polyethylene and polypropylene coated pipelines operating offshore up to 100°C (212°F) [onshore up to 80°C (176°C)]. GTS-PP-100 sleeve has been designed with a unique crosslinked polypropylene backing and a high performance adhesive. The combination allows sleeve installation and bonding to polyethylene and polypropylene mainline coatings. Lower preheats are required versus other systems and superior bonding is achieved without damaging the coating during installation.

Features & Benefits

Unique Adhesive Technology

Canusa's unique adhesive technology allows for lower installation pre-heats and superior bonding to polyethylene and polypropylene coatings. The adhesive has been formulated to effectively bond directly to the mainline coating and the steel. The result is a superior bond to both substrates with quicker application.

Long Term Corrosion Protection

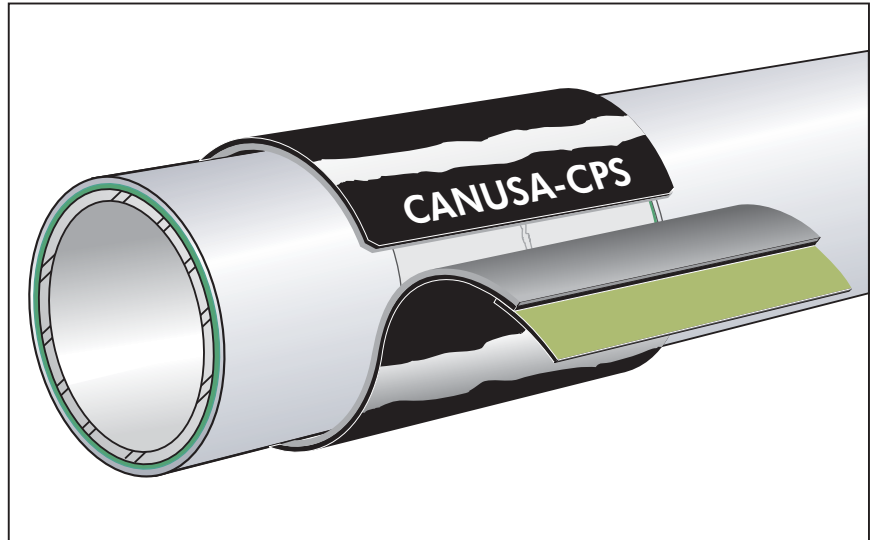
GTS-PP-100 provides superior corrosion protection because of the high performance system approach. The PP backing/adhesive combination provides protection with the structural integrity of an extruded coating, resulting in excellent resistance to cathodic disbondment and excellent durability against abrasion and impact. The result is effective, long term protection against corrosion.

Superior Shear & Impact Resistance

The GTS-PP-100 sleeve has superior impact and shear resistance by virtue of its polypropylene backing. The sleeve is particularly useful in offshore applications where in-service impact is expected. The rapid cooling characteristic of polypropylene allows better resistance to offshore laying rollers.

Rapid & Reliable Installation

Lower pre-heat means less time heating and improved production. The pre-manufactured sleeve means less time in handling, positioning and installation. The overall system minimizes installation time and labour costs while promoting high production rates onshore and offshore.



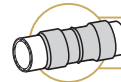
Applications



Oil & Gas



Offshore Pipelines



Girth-Weld Joints



Polypropylene

Configurations



Wrapid Sleeve™



2-Layer

Pipe Sizes



115 - 1220 (4" - 48")

Temperature Range



up to 100°C (212°F)



up to 80°C (176°F)

GTS-PP-100 Sleeve

One-piece protective sleeve with pre-attached closure for high operating temperature offshore polyolefin pipelines

Product Selection Guide

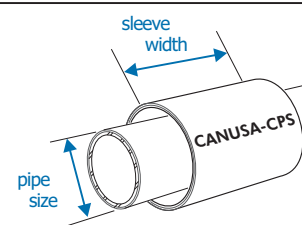
Sleeve Operating Characteristics	Celsius	Fahrenheit	GTS-PP-100	Impact Resistance (J)
	Offshore Pipeline Operating Temperature	100°		
Minimum Installation Temperature	90°	194°	90 (194)	25
Resistance to Impact	80°	176°	excellent	15
Resistance to Circumferential Forces	70°	158°	excellent	10
Resistance to Pipe Laying Shear Forces	60°	140°	excellent	5
Resistance to Axial Pipe Movement	50°	122°	excellent	5
Rapid Quenching Ability			excellent	
Main Line Coating Compatibility			FBE, PE, PP	

Typical Product Properties

	Test Standard	Unit	GTS-PP-100
Adhesive	Specific Gravity	ASTM D792	g/cm ³
	Softening Point	ASTM E28	°C (°F)
	Lap Shear @ 23°C (73°F)	DIN 30672	N/cm ²
	Lap Shear @ 50°C (122°F)	DIN 30672	N/cm ²
Backing	Density	ASTM D792	g/cm ³
	Tensile Strength @ 23°C (73°F)	ASTM D638	MPa
	Elongation at Break @ 23°C (73°F)	ASTM D638	Shore D
	Hardness	ASTM D2240	%
	Volume Resistivity	ASTM D257	ohm.cm
	Low Temperature Brittleness @ -40°C (-40°F)	ASTM D746	--
	Di-electric Breakdown Voltage	ASTM D149	kV/mm
Sleeve	Stress Crack resistance @ 50° (122°F)	ASTM D1693	hours
	Peel Strength @ 23°C (73°F)	DIN 30672	N/cm
	Indentation	DIN 30672	Class C
	Impact	NF A 49-711	J/mm
	Impact Strength	DIN 30672	Class C
Cathodic Disbondment @ 23°C (73°F), 28 days	ASTM G8	mm	

How To Order:

Dimensions & Ordering Info	GTS-PP-100 915-450 BK/L	Standard Ordering Options - GTS-PP-100	
		L Thickness	S Thickness
Thickness		L, S	
Colour		BK - Black	
Sleeve Width		450, 600 mm (18", 24")	
Pipe Size		115 - 1220 mm (4" - 48")	
Adhesive (min. thickness as supplied)		1.4 mm (0.055")	1.5 mm (0.060")
Backing (min. thickness as supplied)		0.9 mm (0.035")	1.1 mm (0.045")
Product Name		GTS-PP-100	



Min. Sleeve Width =
Bare Steel Dimension + 50 mm (2")
on each side of the pipe joint.

* Non-standard sleeve widths are available from 250mm up to 900mm



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