

CanusaTube™ - PLA

Tubular sleeve for pipeline corrosion protection

Canusa-CPS is a leading manufacturer of specialty pipeline coatings which, for over 30 years, have been used for sealing and corrosion protection of pipeline joints and other substrates. Canusa high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate your specific project applications.

Product Description

The CanusaTube™ is a heat shrinkable tubular sleeve designed for corrosion protection of buried and exposed steel pipelines. CanusaTube™ consists of a crosslinked polyolefin backing, coated with a protective heat sensitive adhesive which effectively bonds to steel substrates and common pipeline coatings including polyethylene and fusion bonded epoxy.

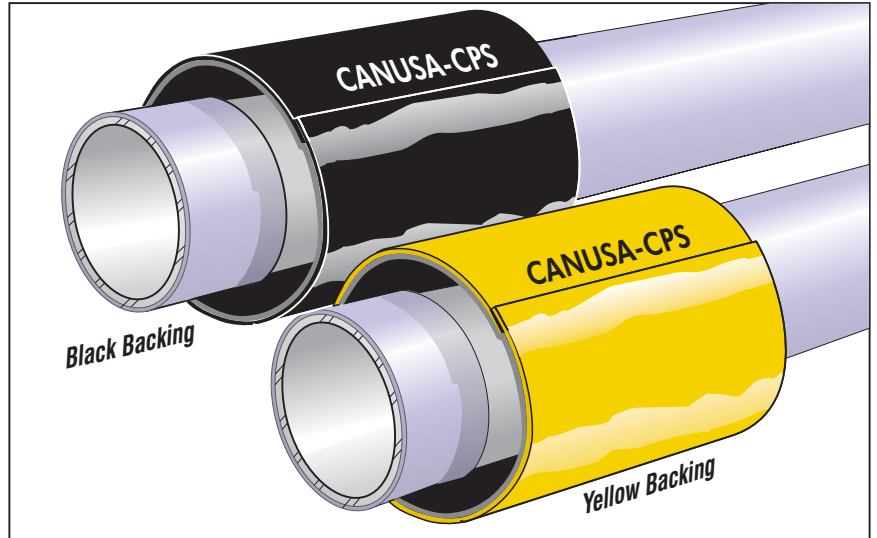
Features & Benefits

Rapid & Reliable Installation

Because CanusaTube™ consists of a unique tubular configuration that has been factory constructed, quick and reliable field installation is easy to accomplish. CanusaTube™ is available with a specially formulated adhesive to accommodate demanding operating temperatures and soil stress conditions. To further optimize installation, CanusaTube™ is available in yellow which includes a thermochromic indicator to visually confirm proper installation.

Long Term Corrosion Protection





CanusaTube™ provides excellent resistance to cathodic disbondment resulting in effective long term corrosion protection. The high performance crosslinked backing in combination with the specially formulated adhesive is engineered to have excellent resistance against temperature cycling, and chemical and environmental attack.






Saves Time & Money

With CanusaTube's™ unique construction, less time is required handling, positioning and installing separate closures. With the application of heat, this feature allows for fast, simple and complete installation of the sleeve. No additional costly primers are required. This minimizes installation time and labour costs while promoting high production rates. CanusaTube™ is also available in a high shrink ratio for high profile joint protection. Consult the High Shrink data sheet for additional information.

Applications

-  Oil & Gas
-  Girth-Weld Joints
-  Water Pipelines
-  Pre-Insulated Pipes

Configurations

-  CanusaTube™
-  2-Layer
-  Standard Shrink

Pipe Sizes

-  55 - 315 (2" - 12")

Temperature Range

-  up to 55°C (131°F)

Approvals

-  DIN 30672

Product Selection Guide Choose your sleeve based on your Pipe Diameter

Shrink Range	Nominal Pipe Diameter DN (inches)	Outside Pipe Diameter mm (inches)	Tubular Sleeve PLA XXX-YYY ZZ	Tubular Sleeve Diameter	
				As Supplied mm (in)	Fully Recovered mm (in)
	50 (2)	61 (2.4)	PLA 55-YYY ZZ	90 (3.5)	55 (2.3)
	65 (2.5)	76 (3)	PLA 63-YYY ZZ	90 (3.5)	63 (2.5)
	80 (3)	89 (3.5)	PLA 90-YYY ZZ	120 (4.8)	81 (3.3)
	90 (3.5)	102 (4)	PLA 100-YYY ZZ	130 (5)	90 (3.5)
	100 (4)	114 (4.5)	PLA 115-YYY ZZ	145 (5.5)	98 (3.8)
	125 (5)	141 (5.5)	PLA 125-YYY ZZ	160 (6.3)	110 (4.3)
	150 (6)	168 (6.6)	PLA 170-YYY ZZ	205 (8)	140 (5.5)
	200 (8)	219 (8.6)	PLA 230-YYY ZZ	260 (10)	180 (7)
	250 (10)	273 (10.7)	PLA 280-YYY ZZ	315 (12.3)	211 (8.3)
	300 (12)	324 (12.8)	PLA 315-YYY ZZ	360 (14)	245 (9.5)

For pipe diameters > DN300 (12"), consult your Canusa representative.

Operating Characteristics

Sleeve Operating Characteristics	Celsius Fahrenheit		Hot Melt PLA
	Pipeline Operating Temperature		
	70°	158°	
	60°	140°	
	50°	120°	
	40°	104°	
	30°	85°	
	Minimum Installation Temp. °C (°F)		60 (140)
	Resistance to Circumferential Forces		very good
	Resistance to Soil Stress		very good
	Resistance to Axial Pipe Movement		very good
	Main Line Coating Compatibility		PU, PE, FBE, PP

Typical Product Properties

Adhesive	Test Standard	Unit	PLA
Backing	Lap Shear	DIN 30 672 N/cm ² (psi)	60 (87)
	Specific Gravity	ASTM D792	0.93
	Tensile Strength	ASTM D638 MPa (psi)	20 (2900)
	Elongation	ASTM D638 %	600
	Hardness	ASTM D2240 Shore D	46
	Abrasion Resistance	ASTM D1044 mg	45
	Volume Resistivity	ASTM D257 ohm-cm	10 ¹⁷
Sleeve	Dielectric Voltage Brkdw.	ASTM D149 kV/mm	20
	Impact	DIN 30 672 class B	pass
	Indentation	DIN 30 672 class B	pass
	Peel	ASTM D1000 N/cm (pli)	50 (29)
	Peel	DIN 30 672 N/cm (pli)	35 (20)
	Cathodic Disbondment	ASTM G8 mm rad	13
	Water Absorption	ASTM D570 %	0.05
	Low Temp. Flexibility	ASTM D2671-C °C (°F)	-32 (-26)
DIN Approval	DIN 30 672 class	B50	
Fully Recovered Thickness		mm (mils)	2.3 (92)

How To Order:

Dimensions & Ordering Info	PLA 115-450 YE	Standard Ordering Options	
		Colour	Sleeve Width
		YE - Yellow, BK - Black	
		300mm, 450mm, 600mm, 900mm (12", 18", 24", 36")	
		55mm - 315mm (2" - 12")	
		A - 0.75 mm (30 mils)	
		L - 0.80 mm (31 mils)	
		P - Tubular	

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

The above represent standard ordering options. Consult your Canusa representative for any unique project requirements.



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