

CanusaWrap™

Two-piece protective bulk roll with separate closure

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.

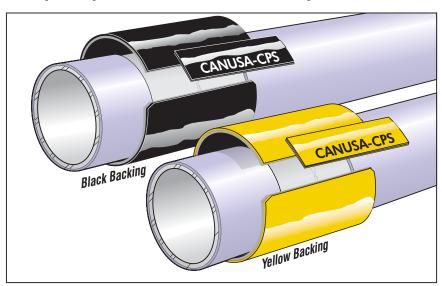
Product Description

CanusaWrapTM is a wraparound sleeve with a separate closure designed for corrosion protection of buried and $e \times p \circ s e d$ s t e e l p i p e l i n e s. CanusaWrapTM is supplied in bulk rolls consisting of a crosslinked polyolefin backing, coated with a protective heat activated adhesive. Once installed, the system effectively bonds and protects steel substrates and common main line pipe coatings including polyethylene and fusion bonded epoxy.

Features & Benefits

Long Term Corrosion Protection

CanusaWrap™ provides excellent resistance to cathodic disbondment resulting in effective long term corrosion protection. The high performance crosslinked backing, in combination with a broad range of adhesives, can be engineered for regular or high stress environments. Once installed, CanusaWrap™ provides the structural integrity of a seamless tube, and provides the substrate with durable protection against abrasion and chemical attack.



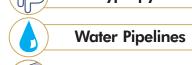
Flexibility on the Job Site

Since CanusaWrap™ is supplied in bulk rolls, just-in-time customized lengths can be quickly cut in the field to protect any pipe size. This flexibility results in reduced inventories and cost savings on the job site. CanusaWrap™ is also available in a high shrink ratio for high profile joint protection. Consult the High Shrink data sheet or your Canusa representative for additional information.

Easy Field Installation

CanusaWrapTM can be installed quickly and easily in most environments. Since no special taping, priming or operator equipment is required, product installation is quick and labour costs are kept to a minimum. CanusaWrapTM and the closure seals are available in yellow with a thermochromic indicator and a patented Windoweld feature which visually confirms optimum installation.

Applications Oil & Gas Polypropylene









CanusaWrap™



2-Layer

Standard Shrink

Pipe Sizes

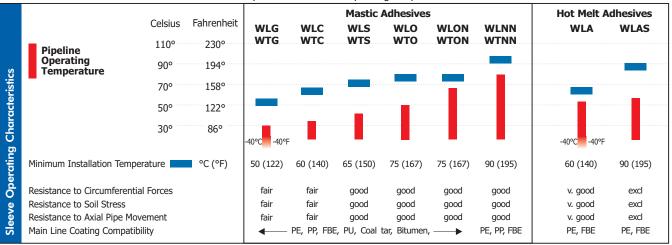
55 - 1520 (2" - 60")

Temperature Range



CanusaWrap

Product Selection Guide Choose your sleeve based on Operating Temperature and Characteristics listed below.



^{*} For higher temperature requirements refer to Canusa GTS product line.

Typical Product Properties

Softening Point Lap Shear	Test Standard ASTM E28 DIN 30 672 M	Unit °C (°F) N/cm² (psi)	100 (212) 8 (12)	90 (194) 30 (44)	77 (171) 40 (58)	102 (216) 40 (58)	102 (216) 40 (58)	124 (255) 52 (75)	72 (162) 60 (87)	90 (194) 117 (170)
Specific Gravity Tensile Strength Elongation Hardness Abrasion Resistance Volume Resistivity Dielectric Voltage Brkdwn.	ASTM D792 ASTM D638 ASTM D638 ASTM D2240 ASTM D1044 ASTM D257 ASTM D149	MPa (psi) % Shore D mg ohm-cm kV/mm	.93 20 (2900) 600 46 45 10 ¹⁷ 27	.93 20 (2900) 600 46 45 10 ¹⁷ 20	.93 20 (2900) 600 46 45 10 ¹⁷ 20	.93 24 (3480) 700 48 35 10 ¹⁷ 27	.95 24 (3480) 700 52 30 10 ¹⁸ 20	.95 24 (3480) 700 52 30 10 ¹⁸ 20	.93 20 (2900) 600 46 45 10 ¹⁷ 20	.93 24 (3480) 700 48 35 10 ¹⁷ 27
,		class C class C N/cm (pli) N/cm (pli) mm rad % °C (°F) class mm (mils)	15 (9) 8 (5) 6 0.05 -40 (-40)	pass pass 55 (31) 50 (29) 6 0.05 5 (23)	pass pass 79 (45) 70 (40) 8 0.05 -20 (-4) 	pass pass 80 (46) 65 (37) 8 0.05 -14 (7) C30	pass pass 80 (46) 65 (37) 7 0.05 -14 (7) C30	pass pass 115 (66) 90 (51) 7 0.05 -15 (5) 2.3 (90)	pass pass 50 (29) 35 (20) 13 0.05 -32 (-26) C50	pass pass 120 (70) 86 (50)** 11 0.05 -28 (-18) C50
	Lap Shear Specific Gravity Tensile Strength Elongation Hardness Abrasion Resistance Volume Resistivity Dielectric Voltage Brkdwn. Impact * Indentation * Peel Peel Cathodic Disbondment Water Absorption Low Temp. Flexibility DIN Approval * Fully Recovered T Sleeve Thi	Softening Point ASTM E28 Lap Shear DIN 30 672 M Specific Gravity ASTM D792 Tensile Strength ASTM D638 Elongation ASTM D638 Hardness ASTM D2240 Abrasion Resistance ASTM D1044 Volume Resistivity ASTM D257 Dielectric Voltage Brkdwn. ASTM D149 Impact * DIN 30 672 Indentation * DIN 30 672 Peel ASTM D1000 Peel DIN 30 672 Cathodic Disbondment ASTM G8 Water Absorption ASTM D570 Low Temp. Flexibility ASTM D2671C	Softening Point ASTM E28 PC (°F) Lap Shear DIN 30 672 M N/cm² (psi) Specific Gravity ASTM D792 Tensile Strength ASTM D638 Hardness ASTM D2240 Abrasion Resistance ASTM D1044 Mg Volume Resistivity ASTM D257 Dielectric Voltage Brkdwn. ASTM D149 Impact * DIN 30 672 Indentation * DIN 30 672 Peel ASTM D1000 N/cm (pli) Peel DIN 30 672 Cathodic Disbondment ASTM D1000 N/cm (pli) ASTM D570 Mater Absorption ASTM D2671 Catlos C PO C (°F) DIN Approval * DIN 30 672 Catlos C Ce (°F) DIN 30 672 Catlos C ASTM D1000 N/cm (pli) Cathodic Disbondment ASTM G8 Mm rad Water Absorption ASTM D2671C C (°F) DIN Approval * DIN 30 672 Class Fully Recovered T Sleeve Thickness mm (mils)	Softening Point ASTM E28 °C (°F) 100 (212) Lap Shear DIN 30 672 M N/cm² (psi) 8 (12) Specific Gravity ASTM D792 .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 10¹² Dielectric Voltage Brkdwn. ASTM D149 kV/mm 27 Impact * DIN 30 672 class C Indentation * DIN 30 672 class C Peel ASTM D1000 N/cm (pli) 8 (5) Cathodic Disbondment ASTM G8 mm rad 6 Water Absorption ASTM D2671C °C (°F) -40 (-40) Low Temp. Flexibility ASTM D2671C °C (°F) -40 (-40) DIN Approval * DIN 30 672 class Fully Recovered T Sleeve Thi	Softening Point Lap Shear ASTM E28 DIN 30 672 M °C (°F) N/cm² (psi) 100 (212) 90 (194) Specific Gravity ASTM D792 Tensile Strength ASTM D638 MPa (psi) 20 (2900)	Softening Point Lap Shear ASTM E28 DIN 30 672 M °C (°F) N/cm² (psi) 100 (212) 90 (194) 77 (171) Lap Shear DIN 30 672 M N/cm² (psi) 8 (12) 30 (44) 40 (58) Specific Gravity ASTM D792 .93 .93 .93 Tensile Strength ASTM D638 MPa (psi) 600 600 600 Elongation ASTM D638 % 600 600 600 Hardness ASTM D2440 Shore D 46 46 46 Abrasion Resistance ASTM D1044 mg 45 45 45 Volume Resistivity ASTM D149 kV/mm 27 20 20 Impact * DIN 30 672 class C pass pass Indentation * DIN 30 672 class C pass pass Peel ASTM D1000 N/cm (pli) 15 (9) 55 (31) 79 (45) Peel DIN 30 672 N/cm (pli) 8 (5) 50 (29) 70 (40)	Softening Point Lap Shear ASTM E28 DIN 30 672 M °C (°F) N/cm² (psi) 100 (212) 8 (12) 90 (194) 77 (171) 102 (216) 102 (216) Specific Gravity ASTM D792 Tensile Strength ASTM D638 MPa (psi) 93 .93 .93 .93 .93 .9	Softening Point ASTM E28 °C (°F) 100 (212) 90 (194) 77 (171) 102 (216) 102 (216) Lap Shear DIN 30 672 M N/cm² (psi) 8 (12) 30 (44) 40 (58) 40 (58) 40 (58) Specific Gravity ASTM D792 <td>Softening Point Lap Shear DIN 30 672 M N/cm² (psi) 8 (12) 90 (194) 77 (171) 102 (216) 102 (216) 124 (255) 8 (12) 30 (44) 40 (58) 40 (58) 40 (58) 52 (75) Specific Gravity ASTM D792 Tensile Strength ASTM D638 MPa (psi) 20 (2900) 20 (2900) 20 (2900) 24 (3480) 24 (3480) 24 (3480) 26 (3900) 20 (3900) 20 (3900) 24 (348</td> <td>Softening Point Lap Shear ASTM E28 DIN 30 672 M °C (°F) N/cm² (psi) 100 (212) 90 (194) 77 (171) 102 (216) 102 (216) 124 (255) 72 (162) 60 (87) Specific Gravity ASTM D792 ————————————————————————————————————</td>	Softening Point Lap Shear DIN 30 672 M N/cm² (psi) 8 (12) 90 (194) 77 (171) 102 (216) 102 (216) 124 (255) 8 (12) 30 (44) 40 (58) 40 (58) 40 (58) 52 (75) Specific Gravity ASTM D792 Tensile Strength ASTM D638 MPa (psi) 20 (2900) 20 (2900) 20 (2900) 24 (3480) 24 (3480) 24 (3480) 26 (3900) 20 (3900) 20 (3900) 24 (348	Softening Point Lap Shear ASTM E28 DIN 30 672 M °C (°F) N/cm² (psi) 100 (212) 90 (194) 77 (171) 102 (216) 102 (216) 124 (255) 72 (162) 60 (87) Specific Gravity ASTM D792 ————————————————————————————————————

How To Order:

^{**} backing elongation during peeling due to superior bond strength

lnfo	WLO-B 450-30 BK	Bulk Roll Or	dering Options	Closure Seal Options			
		Heavy Duty Thickness (L)	Regular Thickness (T)	CLW-B 100-15 ZZ Weldable Closure	CLH-B XXX-15 BK Hot Melt Closure	CLS-B 100-15 ZZ Butyl Adhesive Closure	
eri	²Colour▶	BK- Black,	YE-Yellow	ZZ-BK, WW, YE	ВК	ZZ-BK, YE	
Ordering	Bulk Roll Length	15, 30 m	(50, 100 ft)	Bulk:15,30 m (50,100 ft) Precut: 300,450,600,900mm, (12,18,24,36")			
<u>م</u>	Sleeve / Closure Width	300, 450, 600, 900m	nm, (12, 18, 24, 36")	100mm (4")	115, 150mm (4,6")	100mm (4")	
LIS L	Bulk Roll Designation	B - Bulk Roll de	esignation	B - Bulk Roll			
Isio	Adhesive (thickness as supplied)▶	1.7 mm (65 mils)1	1.25 mm (50 mils)1	W- n/a	H- 0.35mm (14mils)	S- 0.75 mm (30mils)	
Dimensions	Backing (thickness as supplied)▶	L - 0.9 mm (36 mils)	T - 0.6 mm (25 mils)	0.65mm (27 mils)	0.6mm (32 mils)	0.8mm (32 mils)	
ے	Configuration ▶	W - Bul	k Roll	C - Closure Seal			

¹NN has an adhesive thickness of 1.1mm (45 mils)

Bulk Roll Lengths: up to 600 mm width: 30 m (100ft), above 600 mm width: 15 m (50ft)

The above represents standard ordering options Consult your Canusa representative for any unique project requirements, including pre-cut sleeves or closures. WTON, WLON, WTNN, WLNN are available in black only.



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Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the installation guide 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 installation guide is to be used as a guide and is subject to change without notice. This installation guide supersedes all previous installation guides on this product.

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