

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.

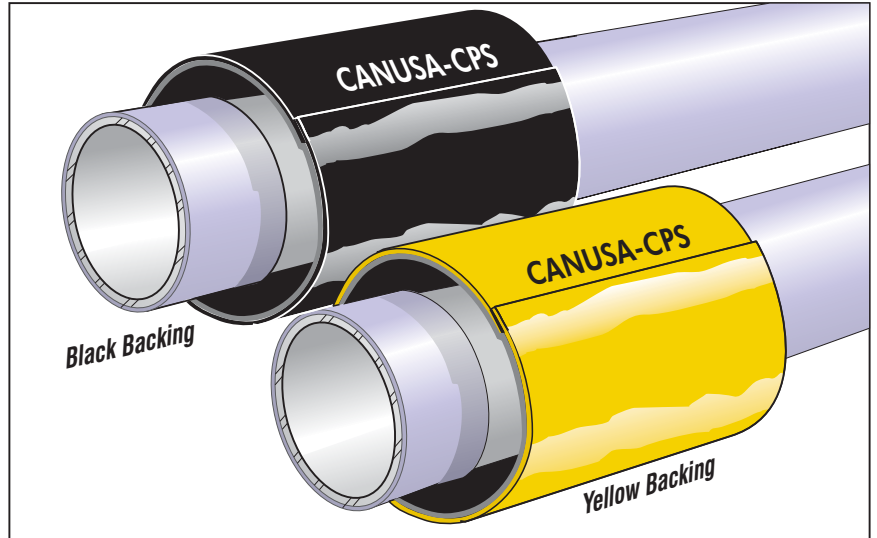
Features & Benefits

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


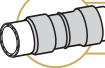


CanusaTube™ provides excellent resistance to cathodic disbondment resulting in effective long term corrosion protection. The high performance crosslinked backing in combination with the specially formulated adhesive is engineered to have excellent resistance against temperature cycling, and chemical 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 Diameter | |
|--------------|--------------------------------------|--------------------------------------|-------------------------|----------------------------|
| | | | As Supplied mm (in) | Fully Recovered mm (in) |
| | 50 (2) | 61 (2.4) | 90 (3.5) | 55 (2.3) |
| | 65 (2.5) | 76 (3) | 90 (3.5) | 63 (2.5) |
| | 80 (3) | 89 (3.5) | 120 (4.8) | 81 (3.3) |
| | 90 (3.5) | 102 (4) | 130 (5) | 90 (3.5) |
| | 100 (4) | 114 (4.5) | 145 (5.5) | 98 (3.8) |
| | 125 (5) | 141 (5.5) | 160 (6.3) | 110 (4.3) |
| | 150 (6) | 168 (6.6) | 205 (8) | 140 (5.5) |
| | 200 (8) | 219 (8.6) | 260 (10) | 180 (7) |
| | 250 (10) | 273 (10.7) | 315 (12.3) | 211 (8.3) |
| | 300 (12) | 324 (12.8) | 360 (14) | 245 (9.5) |

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

Operating Characteristics

| Sleeve Operating Characteristics | Celsius Fahrenheit | | Hot Melt |
|--------------------------------------|--------------------------------|------|----------|
| | Pipeline Operating Temperature | | PLA |
| | 70° | 158° | |
| | 60° | 140° | |
| | 50° | 120° | |
| | 40° | 104° | |
| | 30° | 85° | |
| Minimum Installation Temp. | 60 °C (140 °F) | | |
| 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

| | Test Standard | Unit | PLA |
|---------------------------|---------------------------|------------------------------------|------------------|
| Adhesive | Softening Point | ASTM E28 °C (°F) | 72 (162) |
| | Lap Shear | DIN 30 672 N/cm ² (psi) | 60 (87) |
| Backing | 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 | YE - Yellow, BK - Black | | |
| Sleeve Width | 300mm, 450mm, 600mm, 900mm (12", 18", 24", 36") | | | |
| Pipe Size | 55mm - 315mm (2" - 12") | | | |
| Adhesive (thickness as supplied) | A - 0.75 mm (30 mils) | | | |
| Backing (thickness as supplied) | L - 0.80 mm (31 mils) | | | |
| Configuration | 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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