

CSF/CSK Snap-Fit

The CSF/CSK Snap-Fit are high expansion heatshrinkable wrap-around sleeves specifically designed to provide a waterproof seal on pipeline casings operating at constant temperatures of up to 60°C (140°F). As part of an underground system they electrically isolate pipelines from metallic casings. As well, the CSF/CSK products can be used to prevent the corrosion of above ground flanges and mechanical couplers. The sleeve consists of an irradiation, crosslinked, heat-shrinkable polyolefin backing, coated with an aggressive adhesive that effectively bonds to commonly used pipeline coatings including polyethylene, epoxy, tapes and coal tar enamel. Materials used in these products provide high electrical resistivity resistance to corrosive environments, low water absorption and low moisture permeability. This combination ensures a permanent seal that is resistant to pipe deflection, vibration, soil stress, corrosive gases, and thermodynamic effects resulting from the expansion and contraction of carrier and casing pipes, flanges and mechanical couplers.

Rapid and Reliable Installation

- The Canusa CSF/CSK sleeve has a onepiece construction that allows rapid and reliable field installation. The unique snapfit closure system allows for an accurate installation every time. The CSK kit contains a roll of filament tape and a polypropylene support skirting to provide smooth transition between the casing and the carrier pipe, eliminating the need to apply a filler mastic which is time consuming in the field.

Long Term Sealing

- Once installed, the Canusa CSF/CSK has excellent structural integrity. The system provides superior mechanical protection to the joint by maintaining a hoop-stress around the adhesive and creating a tough permanent bond. The CSF/CSK adhesive remains flexible after installation and provides an excellent seal against vibration, deflection and temperature cycling while protecting from moisture, corrosion and bacterial damage.

Applications



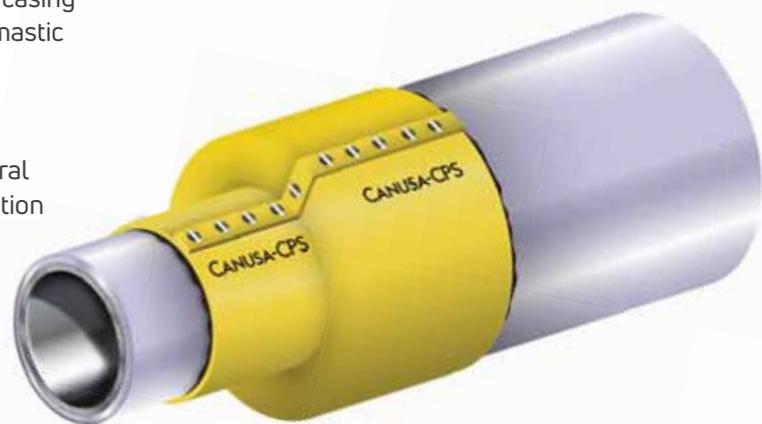
Oil & Gas



Water Pipelines



Step-Down Joints



CSF/CSK Snap-Fit

Adhesive Properties	Test Method	Typical Value
Softening Point	ASTM E28	90°C
Lap Shear	ASTM D1002	90 kPa
Backing Properties		
Tensile Strength	ASTM D638	20 MPa
Elongation	ASTM D638	550%
Hardness	ASTM D2240	44 Shore D
Abrasion Resistance	ASTM D1044	45 mg
Sleeve Properties		
Dielectric Strength	ASTM D149	27 kV/mm
Volume Resistivity	ASTM D257	>10 ¹⁷ ohm-cm
Water Absorption	ASTM D570	0.05%
Peel Strength	ASTM D1000	70 N/cm
Low Temperature Flexibility	ASTM D2671-C	-20°C

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.

The product information shown here is intended as a guide for standard products.

Consult your Canusa representative for specific projects or unique applications.

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**Quality Management
system registered to
ISO 9001**

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

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