

# High Shrink Sleeves

## Sleeves for corrosion protection of high profile joints

Canusa High Shrink Sleeves are superior performance heat shrinkable products designed for corrosion protection of flanges, casings, bell and spigot joints and other high profile couplings. High Shrink Sleeves consist 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.

### Flexible & Reliable Installation

High Shrink products are available in three different configurations for flexibility of installation.

- The patented WrapidSleeve® (WS) incorporates a one-piece pre-attached closure strip that has been factory applied resulting in quick and reliable field installation.
- The CanusaWrap™ (CW) configuration is supplied in a bulk roll, with separate closure seals, providing just-in-time customized lengths. This flexibility results in reduced inventories and cost savings on the job site.
- The CanusaTube™ (CT) consists of a unique tubular configuration that has been factory constructed, resulting in quick and reliable field installation.

### Long-Term Corrosion Protection

- Once installed, the High Shrink Sleeve products have excellent structural integrity, and provide the substrate with durable protection against mechanical and chemical attack. The high performance crosslinked backing provides superior abrasion resistance and can be engineered for regular or high stress environments. In combination with Canusa's high performance adhesives, the High Shrink Sleeve provides excellent resistance to cathodic disbondment resulting in effective long term corrosion protection.



### Applications



Couplings



Flanges



Tyton Joints



Step-Down Joints



# High Shrink Sleeves

Sleeves for corrosion protection of high profile joints

Operating Characteristics	Test Method	K-60	PMOF	PMA
Pipeline Operating Temp.		Up to 60°C (140°F)	Up to 50°C (122°F)	Up to 50°C (122°F)
Minimum Installation Temp.		65°C (150°F)	50°C (122°F)	60°C (140°F)
Main Line Coating Compatibility		PE, PP, FBE, PU, AE, CTE	PE, PU, FBE	PE, PU, FBE
Adhesive Properties				
Softening Point	ASTM E28	87°C	91°C	72°C
Lap Shear Strength	ISO 21809-3	35 N/cm <sup>2</sup>	30 N/cm <sup>2</sup>	60 N/cm <sup>2</sup>
Backing Properties				
Tensile Strength	ASTM D638	20 MPa	20 MPa	20 MPa
Elongation	ASTM D638	600%	600%	600%
Hardness	ASTM D2240	46 Shore D	46 Shore D	46 Shore D
Volume Resistivity	ASTM D257	10 <sup>17</sup> ohm-cm	10 <sup>17</sup> ohm-cm	10 <sup>17</sup> ohm-cm
Sleeve Properties				
Adhesion Strength @ 23°C	ISO 21809-3	15 N/cm	70 N/cm	10 N/cm
Impact Strength	ISO 21809-3	5 J/mm	5 J/mm	5 J/mm
Cathodic Disbondment	ASTM G8	8 mm rad	13 mm rad	13 mm rad
Low Temp. Flexibility	ASTM D2671	-14°C	-14°C	-32°C
EN Approval	EN 12068	Class C30	-	Class C50

Product Selection Guide					
Pipe Diameter	Coupling 	Flange DIN 2620 PN 16 	Bell & Spigot (Tyton) 		
DN 25 1"	PMA 70/25, 50/20	-	-	For K-60 HS70, cut the sleeve to the circumference of the bell profile + 100mm. Approximate lengths are shown.	
DN 32/40 1½"	PMA 90/30	-	-		
DN 50 2"	PMA 120/40	K-60 HS200 185/65	-		
DN 65 2.5"	PMA 120/40	K-60 HS200 185/65	PMOF 200/70		
DN 80 3"	PMA 170/80	K-60 HS200 200/70	PMOF 240/90	K-60 HS150 CT 170/85	K-60 HS70 600 mm
DN 100 4"	PMA 200/100	K-60 HS200 220/80	PMOF 240/90	K-60 HS150 CT 230/105, 200/100	K-60 HS70 650 mm
DN 125 5"	PMA 255/130	K-60 HS200 315/110	PMOF 300/110	K-60 HS70 CT 230/105, 200/100	K-60 HS70 725 mm
DN 150 6"	PMA 255/130	K-60 HS200 315/110	PMOF 300/110	K-60 HS70 CT 260/160, 270/160	K-60 HS70 800 mm
DN 200 8"	PMA 425/210	K-60 HS200 340/120	PMOF 360/130	K-60 HS70 CT 310/195, 335/205	K-60 HS70 1000 mm
DN 250 10"	K-60 HS70 1500 mm	K-60 HS70 1400 mm	PMOF 470/170	K-60 HS70 CT 380/230, 395/255	K-60 HS70 1200 mm
DN 300 12"	K-60 HS70 1700 mm	K-60 HS70 1600 mm	PMOF 470/170	K-60 HS70 CT 420/265, 455/285	K-60 HS70 1350 mm
DN 400 16"	K-60 HS70 1950 mm	K-60 HS70 2100 mm	-	-	K-60 HS70 1700 mm
DN 500 20"	K-60 HS70 2250 mm	K-60 HS70 2300 mm	-	-	K-60 HS70 2000 mm

For pipe diameters > DN 500 (20"), consult your Canusa representative.