



Heat-shrinkable sleeve providing waterproof seal between casing & carrier pipe.

Product description

CSEM-F/ CASEAL (US) casing/carrier step-down sealing.

Construction: Two-layer system:

First layer: Visco-elastic mastic sealant.

Second layer: Fiberglass reinforced, radiation cross-linked, polyethylene backing.

Additional kit component: Non-shrinkable, polypropylene support sheet.

CSEM-F/CASEAL (US) is a heat-shrinkable, wrap-around sleeve with a very high shrink ratio, specially developed for casing/service pipe sealing.

The special adhesive inside the thick-wall CSEM-F/CASEAL(US) assures an excellent bond between the sleeve and bare or pre-coated pipes.

The fiberglass reinforced woven and laminated backing gives the CSEM-F/CASEAL(US) sleeve a high mechanical resistance as well as a high recovery capacity. A zipper closing system allows a simple and fast installation. In addition to the CSEM-F/CASEAL(US) sleeve, a support sheet is supplied which provides a smooth step-down in the transition area to ensure a tight closure and enhances the mechanical strength.

CSEM-F/CASEAL(US) is installed using standard gas torches. After pipe surface preparation and preheating, the support sheet is wrapped around the transition to be sealed followed by the heat-shrinkable sleeve. The sleeve is zipper-closed, forming a tube, and shrunk in place tightly fitting around the substrate. During recovery, the adhesive softens and flows to form a tight bond. The bond strength builds up during cool down and is fully retained after completion of the job.

Product features/benefits

- **Fiberglass reinforced backing**
Provides high mechanical resistance.
Provides a high recovery capacity.
- **65% shrinkage ratio – conforms to high transitions**
Reduces inventory & logistics costs.
- **Resists a wide range of environmental and mechanical forces**
Reliable, moisture-proof seal!
Extremely tough.
- **Specially formulated sealant**
Ensures a strong bond & tight seal to virtually any substrate.
Maintains its elasticity and sealing characteristics over a wide temperature range.
- **Sealing adhesive automatically flows and repairs minor mechanical damages**
"Self-healing effect". Saves time.
- **Zipper closure system**
Allows simple & fast installation.
- **Usable also when service pipe is not concentric with the casing.**
Highly versatile.
- **No special equipment required**
Makes installation fast and easy.
Keeps installation costs low.

Product selection guide

	CSEM-F/CASUAL(US)
Max operating temperature	30°C (86°F)
Compatible line coatings	PE, PP, FBE, Tape, Coal tar, Asphalt, Plastics
Min preheat temperature	60°C (140°F)
Recommended pipe preparation	ST3 or SA 2 ½

Product thickness

	CSEM-F/CASUAL(US)
Backing (as supplied)	0.051 in. (1.3 mm)
Backing (fully free recovered)	0.128 in. (3.25 mm)
Adhesive (as supplied)	0.047 in. (1.2 mm)
Support sheet	0.043 in. (1.1 mm)

Product properties: CSEM-F/CASUAL (US)

Property	Test method	Typical Value
Backing		
Bursting strength	DIN 30672	3500 N
Adhesive		
Softening point	ASTM E-28	92°C (198°F)
Shear strength	EN12068 @ 10 mm(0.4")/min.	8 N/cm ²
Peel strength	EN12068 @ 10 mm(0.4")/min.	9 N/cm
Sleeve		

Pressure tightness, angular deflection and axial displacement tests are described in the technical specification RUD6079

Ordering information

CSEM-F/CASEAL(US) type products are available as a kit, containing:

- a Uni-sleeve (pre-cut sleeve with integrated zipper closure system)
- a support sheet

Example: CSEM-F-280/110-425

CSEM-F	Product type	Standard Ordering options
280/110	Recovery ratio in mm	See application table
425	Sleeve width in mm	See application table

Example: CS10750

CSEM-F	Product type	Standard Ordering options
10750	Pipe diameter of the casing pipe in mils	See application table

Application table

CSEM-F	CS*	Min Pipe diameter	Max Casing diameter
280/110-425	10750	114.3 mm (4.50")	250 mm (10")
380/140-425	14000	139.7 mm (5.50")	355 mm (14")
540/180-425	20000	219.1 mm (8.75")	508 mm (20")
600/215-425	22000	273.0 mm (10.75")	560 mm (22")
760/270-600	28000	323.9 mm (12.75")	710 mm (28")
880/320-600	32000	355.6 mm (14")	813 mm (32")
1050/370-600	40000	406.4 mm (16")	1016 mm (40")
1150/410-600	44000	457.2 mm (18")	1118 mm (44")
1300/470-600	50000	508.0 mm (20")	1270 mm (50")

* CASEAL (US) can be made for any specific casing diameter. In this table only the sizes similar to the standard CSEM-F sizes are mentioned.

For proper product installation, see latest installation instruction.

Berry Plastics warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the technical data sheet when used in compliance with Berry Plastics written instructions. Since many installation factors are beyond the control of Berry Plastics, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Berry Plastics liability is stated in the standard terms and conditions of sale. Berry Plastics makes no other warranty either expressed or implied. All information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.



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