

# **SNI INDIA**

## PRODUCT DATA SHEET

### HBMS65 Heat Shrinkable Wrap-around

2-layer Girth Weld Field Joint Coatings

## Description /

HBMS65 Heat shrinkable wrap-around sleeve is designed for corrosion protection of girth weld joint buried steel pipeline, especially for 3LPE/DFBE/CTE/HDPE factory coating pipeline.

Construction : Two-Layer system

First layer : Low-preheat Adhesive (Mastic sealant / Hotmelt) Second layer: Radiation cross-linked, high density polyethylene backing, backing with SIP (Shrink Indicator Pattern)



#### Features & Benefits 💋

- $\succ$  Saves time and cost by lower pre-heat temperature.
- > Excellent performance for aging and provide best shelf life.
- Excellent multi-functional adhesive allow for lower installation pre-heat temperature and super bonding to PE/DFBE/FBE/CTE/HDPE offer fully resistant to shear forces induced by soil and thermal movements
- > Superior cathodic disbondment and hot water immersion resistance offers the optimum barrier long term protection against corrosion
- > Embossed backing provides a Shrink Indicator Pattern for application of heat, ensures correct application heating

### Selection Criteria

	HBMS65
Standard Reference	EN 12068 Class C 50 UV, ISO 21809-3 14 A 2, AWWA C 216
Compatible line coatings	PE/FBE/DFBE/CTE/AE
Soil stress restriction	Moderate
Max. operating temperature	65°C
Pre-heat temperature	50°C
Recommended pipe preparation	St 2~3

#### Ordering Information

#### HBMS65 type products are available:

- As cut piece (pre-cut sleeve with separate closure patch)
- As a roll (closure patches to be ordered separately)

Product thickness (mm)Backing (as supplied)Adhesive (as supplied)Total thickness (applied) $0.8 \sim 1.1$  $1.0 \sim 1.8$  $1.8 \sim 3.0$ 

Select sleeve width that will overlap onto the mill-applied coating by 2 inches (50 mm) minimum on each side of the weld joint

Other sleeve thickness from 1.4 to 3.2mm are available as per requirement.

Sleeve width (mm): 16", 18", 20", 24"

Other width (10"-36") are available as per Customer special requirement.

## Standard Ordering Options

	Cut piece ( Pre-Cut sleeve with separate closure patch)		Roll form (closure patches to be ordered separately)
Example:	HBMS65-12 X18/2.2	Example:	HBMS65-18 X100/2.2-RL
65	Operating Temperature 65°C	65	Operating Temperature 65°C
12	Outside pipe diameter in inch	18	Roll width in inch
18	Sleeve width in inch	100	Roll length in feet
2.2	Sleeve thickness in mm	2.2	Roll thickness in mm
		-RL	Supplied in rolls

Sleeve cut lengths and appropriate closure patch widths depend on the pipe size and product construction, refer installation Manual.





## Closure Patch

- Example: CP-4X18 4 Closure patch width in inches
  - 4
     Closure patch width in inches
     4" (100 mm), 6" (150 mm), 8" (200 mm)

     18
     Closure patch length in inches
     16", 18", 20" 24"

#### Product Properties

#### **PE Backing**

Properties	Test Method	Typical Values
Tensile strength	ASTM D-638	23MPa
Elongation	ASTM D-638	620%
Hardness, Shore D	ASTM D-2240	55
Shrink force @ 150°C	ASTM-638	40 psi
Di-electric voltage breakdown	ASTM D-149	35kV/mm
Moisture absorption	ASTM D-570	0.04%

#### Adhesive

Softening point	ASTM E-28	>110°C
Lap sheer	EN 12068	
@23°C		0.3N/mm <sup>2</sup>
@ 65°C		0.08N/mm <sup>2</sup>

#### Sleeve

Peel to Steel @23°C	EN12068/ ISO21809-3	1.5 N/mm
Peel to Steel @30°C	AWWA C216/ASTM D1000	3.5 N/mm
Impact Resistance	ASTM G14/ EN12068, Class C / ISO21809-3	<b>80 in-Ibf</b> 8J ~ 15J*. No Holiday (* <i>Based on Thickness</i> )
Hot Water Immersion 120 days @65ºC	ASTM D-870	No de-lamination, no blisters or water ingress
Cathodic disbondment @65°C	EN12068, 28 days / ISO21809-3	< 7.5mm
Low Temperature Flexibility	ASTM D-2671-C	-14 °C
Penetration Resistance @65°C	EN12068, Class C/ ISO21809-3	>0.6mm residual thickness

Note: The typical values in this data sheet are based on lab prepared samples. For project specific requirements please consult with SNI INDIA

Storage: Indoor, clean, dry away from direct sunlight in a cool place below +50°C

Sales & Marketing

524, Commodity Exchange Building,

Sector 19A, Vashi - 400705,

Navi Mumbai Maharashtra, India

Installation: For proper installation and performance please refer our installation instruction

Personnel Qualification: Installation of the HBMS65 coating system should be carried out by SNI INDIA certified personnel



# SHRI NARAYAN IMPAC INDIA LLP

Works

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SNI INDIA ACQUIRED "RAYCHEM RPG" PIPELINE BUSINESS w.e.f. 1st October 2020

#### **Registered Office**

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