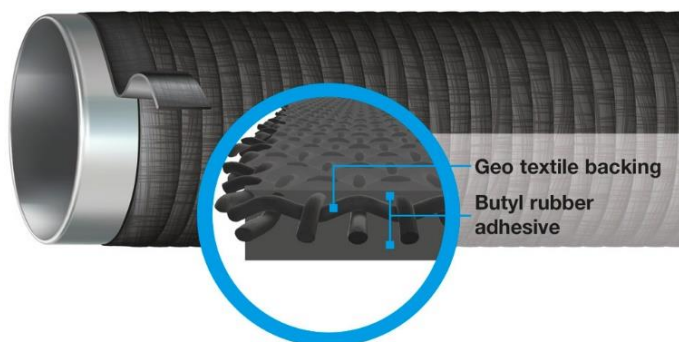


DENSOLEN® -MB60

Product information



Special advantages:



For operating temperatures up to +60 °C (+140 °F).



Tested in accordance with ISO 21809-3, type 12B-2.



Fulfils EN 12068-B50 and DIN 30672-B50 **with just one wrapping process.**



With age-resistant high-performance coating.



Highest lap shear strength with simultaneous transverse flexibility.

Mesh-backed single tape system for permanent corrosion prevention of metal pipes and pipelines at operating temperatures up to +60 °C (+140 °F).

Product description

DENSOLEN®-MB60 is a cold-applied, highly tear-resistant **mesh-backed single tape system** for the corrosion prevention of metal pipes and pipelines under high corrosive and mechanical loads.

Even at maximum operating temperatures, the highly tear-resistant coating offers **excellent resistance to shear stresses** in the circumferential direction with simultaneous outstanding matching to the surface profile in the longitudinal direction of the pipe. This **ensures that the coating remains in position and retains its integrity** even under difficult conditions, e.g. with increased upward or downward movement of the pipe.

DENSOLEN®-MB60 consists of a **highly tear-resistant geotextile fabric**, asymmetrically embedded in a **high-performance coating of modified butyl rubber**. Unlike tapes with outdated bitumen coatings, this advanced coating does not tend to become brittle and thus remains

flexible even after years of use, reliably withstanding thermal and mechanical stresses.

The high coating thickness of the tape on the side facing the pipe surface ensures **optimum protection even with uneven contours**. The tape is very easy to apply and due to its special **transverse flexibility**, is ideally for optimally shaping structures and creating smooth transitions.

DENSOLEN®-MB60 impresses with its highest lap shear strength in the wrapping direction. The spirally wrapped tape layers amalgamate completely in the overlap area, thus forming a permanent hose-like coating of outstanding durability and resistance.

Even with just one wrapping (50 % overlap), **DENSOLEN®-MB60** fulfils the essential requirements of **ISO 21809-3** (12B-2) and **EN 12068** (B50). Due to its outstanding properties, the tape is compatible with other **DENSOLEN®** butyl rubber tapes. This

opens up a wide range of combination options for all challenges in pipeline corrosion prevention.

DENSOLEN®-MB60 is **compatible with all factory coatings** made of PE, PP, FBE, PU and bitumen.

To ensure a uniform surface finish before tape application, **DENSOLEN®-HT Primer** is applied as a system component.

This is followed by one wrapping (50 % overlap) with **DENSOLEN®-MB60**.

Structure of DENSOLEN®-MB60:



Butyl rubber adhesive
Geo textile fabric
Butyl rubber adhesive

DENSOLEN®-MB60

Typical product properties

Property	Unit	Typical value	Test method
Outside colour		black	
Inside colour		black	
Total thickness	mm	≥ 1.23	ASTM D1000
Lap shear strength in wrapping direction	N/cm	≥ 400	ASTM D1000
Dielectric strength	kV / mm	≥ 18	ASTM D149

DENSOLEN®-MB60 with DENSOLEN®-HT Primer

Property	Test temperature	Unit	Typical value 2-layer	Test Standard
Peel strength (steel surface)	+23 °C (+73 °F)	N/cm	≥ 60	ASTM D1000
Impact resistance	+23 °C (+73 °F)	J/mm	≥ 4.4	ISO 21809-3
Indentation resistance, 0.1 N/mm ² (residual layer thickness)	+60 °C (+140 °F)	mm	≥ 1.1	
Peel strength (inner layer/outer layer)	+23 °C (+73 °F)	N/cm	≥ 30	
	+60 °C (+140 °F)		≥ 2.2	
Lap shear strength	+23 °C (+73 °F)	N/cm ²	≥ 10	
	+60 °C (+140 °F)		≥ 4	

DENSOLEN® tapes can be easily applied by hand. It is even more efficient to work with the original **DENSOMAT®** wrapping devices. For **DENSOLEN®** tapes with widths > 50 mm we recommend using a **DENSOMAT®** wrapping device to guarantee an excellent processing quality.

Ordering information and packaging

	Width [mm]	Length [m]	m ² / Roll	Rolls	Contents per box		
					m ²	lin. m	kg (approx.)
DENSOLEN®-MB60 core Ø 41 mm	50	10	0.5	12	6	120	8.8
	100		1.0	6	6	60	8.8
	50	20	1.0	8	8	160	11.7
	100		2.0	4	8	80	11.7
DENSOLEN® -MB60 core Ø 78 mm	100	50	5.0	3	15	150	20
	150		7.5	2	15	100	20

Additional lengths and widths are available on request.

Storage

When stored in its original, unopened packaging, **DENSOLEN®-MB60** can be stored for at least 24 months after the manufacturing date.

Storage temperature: ≤ + 40 °C (+104 °F)

Store in a dry location and do not rest anything against the front of the product.

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