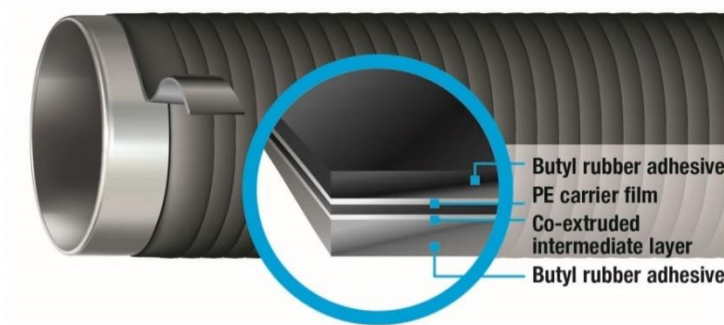


DENSOLEN[®]-S10

Product information



Special advantages:

- ✓ Co-extruded 3-ply tape with an especially adapting carrier film.
- ✓ Single tape system for flanges, T-fittings and other fittings.
- ✓ **B50**
EN 12068 Fulfills EN 12068-B50 and DIN 30672-B50.
- ✓ Tested in accordance with ASTM.
- ✓ For operating temperatures up to +50 °C (+122°F).

Single tape system for the corrosion prevention coating of metal pipes, pipelines and containers in accordance with DIN 30672, EN 12068, ASTM and AWWA. For extreme corrosion conditions and mechanical stresses on uneven substrates.

For a century now, DENSO Group Germany has been representing experience, quality and reliability for corrosion prevention and sealing technology. The success of the internationally leading corporation is based on the development of the "DENSO-Tape", which was already patented in 1927 as the first product worldwide for the passive corrosion prevention of pipelines. Since then, the DENSO Group Germany has been establishing and guaranteeing the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees continuously implement safe and individual solutions in a personal cooperation with the customer.

Description

DENSOLEN[®]-S10 is a cold applied single tape system for corrosion prevention of metal pipes, pipelines and fittings. It is especially suitable for uneven substrates and complicated geometries.

An especially adaptable carrier film makes it possible that DENSOLEN[®]-S10 adapts perfectly to uneven surfaces and parts that are formed with a complicated shape.

Due to the innovative formula, the tapes grow completely together in the

overlapping area and create a long-lasting hose-type coating.

DENSOLEN[®]-S10 is a system approved by DIN-DVGW (**B 50**) with an impact resistance that is equivalent to class C.

DENSOLEN[®]-S10 is basically impermeable for water vapor and oxygen and it is resistant against soil bacteria and electrolytes.

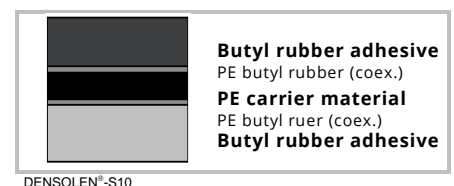
DENSOLEN[®]-S10 is compatible with factory coatings made of PE, PP, FBE, PU, CTE and Bitumen.

The system DENSOLEN[®]-S10 consists of:

DENSOLEN[®]-HT Primer
a solvent containing primer, which provides an optimal adhesion of the **DENSOLEN[®]** tapes with the substrate.

Please refer to the separate product information of the DENSOLEN[®]-HT Primer.

DENSOLEN[®]-S10, a co-extruded 3-ply plastic tape made from stabilized polyethylene carrier materials with butyl rubber adhesive on both sides.



Typical product properties

Property	Unit	Typical value	Test method
Carrier film color	-	black	-
Butyl adhesive color inside	-	grey	-
Butyl adhesive color outside	-	black	-
Total thickness	mm	≥0.8	ISO 4591 ASTM D1000
Carrier film thickness app.	mm	≥0.14	
Inside adhesive layer thickness app.	mm	≥0.38	
Outside adhesive layer thickness app.	mm	≥0.28	
Elongation at break	%	≥250	DIN 30672
Tape strength	+23°C (+73°F) N/cm	≥40	EN 12068
Dielectric strength	kV/mm	≥10	DIN 53481
Water absorption	+23°C (+73°F) 1 day / 30 days %	≤0.1 / ≤0.4	DIN 53495 ASTM D570
Brittleness temperature	°C	-46±4 (-50.8±7.2)	DIN 53372
		-58±4 (-72.4±7.2)	GOST 10354

DENSOLEN®-S10 (4 layers) with DENSOLEN®-HT Primer

Property	Unit	Typical value	Required value	Test method	
Systems building	Primer	DENSOLEN®-HT			
	Tape	DENSOLEN®-S10, 4 layers			
Specific electrical insulation resistance	Ohm m ²	≥ 10 ¹⁰	≥ 10 ⁸	EN 12068	
Contact resistance	Ohm cm	≥ 10 ¹⁵	-	DIN 53482 ASTM D257	
Peel resistance metal / primer / S10	N/cm	+23°C (+73°F)	+50°C (+122°F)		
		≥ 20	≥ 3	≥ 4 ≥ 0.4	EN 12068
Peel resistance layer to layer	N/cm	+23°C (+73°F)	+50°C (+122°F)		
		≥ 35	≥ 5	Not stated	ASTM D1000
S10 / S10		≥25	≥3	≥ 8 ≥ 2	EN 12068
Indentation resistance - residual layer thickness	+50°C (+122°F), 1MPa mm	≥ 0.8	> 0.6	EN 12068	
Impact resistance (four-layer)	J	≥ 15 (fulfills class C)	≥ 10	EN 12068	
Cathodic disbondment resistance	mm	≤ 8	-	ASTM G8	
Lap shear strength +23°C (+73°F)	on steel	≥15	5		
	on PE	≥15	5		

DENSOLEN® tapes can be easily applied manually. The processing with the original DENSO MAT® wrapping devices is even more efficient. For DENSOLEN® tapes with widths of > 50 mm, we recommend the use of the DENSO MAT® wrapping device to guarantee an excellent processing quality.

Ordering information and packaging

	Core diameter (mm)	Width (mm)	Tape length (m)	Tape area (m ²)	Content per box			
					Number of rolls	Total tape area (m ²)	Total tape length (m)	App. Weight (kg)
DENSOLEN®-S10	41	30	15	0,45	18	8,1	270	9,7
		50	15	0,75	12	9	180	10,6
		100	15	1,5	6	9	90	10,5

Additional lengths and widths are available on request.

Storage

When stored in its original, unopened packaging, DENSOLEN®-S10 can be stored for at least 60 months after the manufacturing date.

Storage temperature: ≤ +50°C (+122°F)

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

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