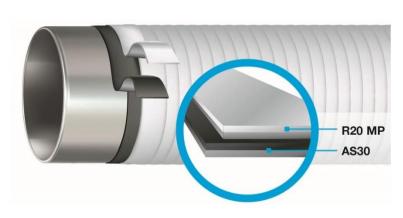
DENSOLEN®-AS30/-R20 MP

Product information





Special advantages:

No spiral corrosion hazard as compared to a two-ply tape.



Fulfills EN 12068-B50.



Fulfills ISO 21809-3, Type 12A-1.



Compatible with factory coatings made of PE, PP, FBE, PU, CTE and bitumen.



Outstanding tape elasticity and elongation at break.



Cost-effective system with outstanding price/performance ratio.

Two-tape system for the corrosion prevention coating of metal pipes and pipelines in accordance with DIN 30672 and EN 12068.

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®-AS30/-R20 MP is a cold applied tape system for corrosion pre- vention of metal pipes and pipelines with outstanding economic and qualitative properties. Due to the innovative formula, the tapes grow completely together in the overlapping area and create a long-lasting hose-type encasement.

DENSOLEN®-AS30/-R20 MP fulfills the requirements of the impact resistance of class B 50 in accordance with EN 12068 and even the indentation resistance of class C 50. DENSOLEN®-AS30/-R20 MP is basically impermeable for water vapor and oxygen and it is resistant against soil bacteria and electrolytes.

DENSOLEN®-AS30/-R20 MP is compatiblee with factory coatings made of PE, PP, FBE, PU, CTE und Bitumen.

The system **DENSOLEN®-AS30/-R20 MP** consists of:

DENSOLEN®- HT Primer

A solvent containing primer for corrosion prevention in combination with **DENSOLEN®** tapes. For the processing in hot environments, the **DENSOLEN®-MT25 Primer** can be used as an alternative. Please

refer to the separate product data sheet

DENSOLEN®- Primer.

DENSOLEN®-AS30

A real co-extruded 3-ply plastic tape made from stabilized polyethylene carrier materials with butyl rubber adhesive on both sides. DENSOLEN®-AS30 grows completely together in the overlapping area and creates a hose-type encasement, which

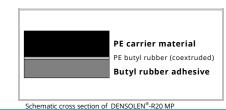
results in a reliable and durable corrosion

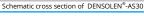
An outstanding connection between the adhesive and the carrier film is guaranteed by the co-extruded intermediate layer.

DENSOLEN®-R20 MP

A co-extruded two-layer plastic tape made from robust white polyethylene carrier film with a single side butyl rubber coating. An outstanding connection between the adhesive and the carrier film is achieved by the co-extruded intermediate layer. The butyl rubber adhesive layer grows completely together with the out-side layer of **DENSOLEN®-AS30**.









Typical product properties

Property	Unit	DENSOLEN [®] -AS30 Typical value	DENSOLEN ^{®-} R20 MP Typical value	Test method	
Carrier film color	-	Black	White	-	
Butyl adhesive color inside	-	Gray	Black	-	
Butyl adhesive color outside	-	Black	-	-	
Total thickness	mm	≥ 0.5	≥ 0.5		
Carrier film thickness app.	mm	≥ 0.18	≥0.3	ISO 4591	
Inside adhesive layer thickness app.	mm	≥ 0.24	≥ 0.2	ASTM D1000	
Outside adhesive layer thickness	mm	≥ 0.08	-		
Elongation at break	%	≥ 600	≥ 500	DIN 30672	
Tensile strength +23°C (+73°F)	N / cm	≥ 65	≥65	EN 12068	
Dielectric strength	kV / mm	≥40	≥ 50	ASTM D149	

DENSOLEN®-AS30/-R20 MP with DENSOLEN®-HT Primer

Property	Unit	DENSOLEN®-AS30/-R20 MP Typical value		Required value		Test method
Specific electrical insulation resistance	Ohm m ²	≥ 10 ¹¹		≥ 10 ⁶		EN 12068
Volume resistivity	Ohm cm	≥ 10 ¹⁶		Not stated		ASTM D257
Peel resistance		+23°C (+73°F)	+50°C (+122°F)			
metal/primer/tape	N / cm	≥ 15	≥ 2.0	≥ 4	≥ 0.4	EN 12068
ппетал/риппет/таре		≥ 33	≥ 2.5	Not stated		ASTM D1000
Peel resistance layer to layer		+23°C (+73°F)	+50°C (+122°F)			
AS30 / AS30	N/cm	≥ 22	≥ 4.0	≥ 8	≥ 2	EN 12068
AS30 / R20 MP		≥ 22	≥ 3.5	≥ 8	≥ 2	
R20 MP / R20 MP		≥ 4	≥ 3.5	≥ 2	≥ 2	
Indentation resistance - residual layer thickness			+50°C (+122°F)			
for stamp load 1N / mm², stamp-Ø 5.65 mm	mm	> 1.3 (fulfills class B)		> 0.6		EN 12068
for stamp load 10 N / mm², stamp-Ø 1.8 mm		> 0.6 (fulfills class C)		> 0.6		
Impact resistance	J/mm	≥ 7.5 J/mm (≥15 J)		≥ 4		ISO 21809-3
Cathodic disbondment resistance (radius)	mm	< 2		< 20		EN12068
Lap shear strength	_	+23°C (+73°F)				
on steel	N / cm ²	≥ 8		5		EN 12068
on factory coating		≥ 8		5		
Water vapor permeability	g /m² 24h	4h < 0.2		Not	stated	ASTM E96

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

Ordering information and packaging

	Cava diamatan	Tana longth Tape area Content per bo			nt per box			
	Core diameter (mm)	Width [mm]	Tape length [m]	per roll (m²)	Number of rolls		Total tape length (m)	
DENSOLEN®-AS30	41	50	30	1.5	10	15	300	10
		100	30	3.0	5	15	150	10
		150	30	4.5	5	22.5	150	15
	78	100	70	7	3	21	210	13
		150	70	10.5	2	21	140	13
DENSOLEN®-R20 MP	41	50	30	1.5	12	18	360	11
		100	30	3.0	6	18	180	11
		150	30	4.5	6	27	180	17
	78	100	70	7	3	21	210	13
		150	70	10.5	2	21	140	13
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Additional dimensions available on request.

Storage

When stored in its original, unopened packaging, **DENSOLEN®-AS30/-R20 MP** can be stored for at least 60 months after the manufacturing date.

Our product information, application recommendations and other

Storage temperature: ≤ +50°C (+122°F)

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

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