



Product Information

Special Advantages

- self-amalgamating
- highly electrically insulating
- flexible



DENSOLEN[®] Butyl Rubber Tapes

Cold applied butyl rubber based plastics tapes with thin carrier film for the corrosion protective coating of pipes, fittings and installations and for electrical insulation.

Description

DENSOLEN N- and E-Tapes are butyl rubber based plastics tapes in various thickness', for various operating temperatures and in grey

or black colour. DENSOLEN butyl rubber tapes self-amalgamate in the overlap areas, forming a sleeve-type, impermeable and highly insulating

coating. DENSOLEN butyl rubber tapes are highly conformable to any surface structure.

Use

Corrosion prevention

- As innerwrap for the corrosion protective coating of welded joints on steel pipes, full pipe length', tanks and other installations. To be combined with DENSOLEN-Tapes PE or R (two-ply plastics tapes) for mechanical protection.

- As corrosion protective coating for concealed metal pipes and installations.
- As corrosion protective coating for pressfittings in in-house gas- and water-installations.

Sealing

- Galvanic insulation between two different parts of metal to avoid contact corrosion
- Sealing of riveted and threaded connections in car constructions
- Sealing intermediate layer in car constructions

Properties

DENSOLEN-Butyl Rubber Tapes, typical properties

Property	Unit	N8	N10	E10	ET100	Standard
Colour	-	grey	grey	black	black	-
Tape thickness	mm	≥ 0,8	≥ 1,0	≥ 1,0	≥ 1,0	ISO 4591
Thickness carrier film	µm	70	70	25	25	ISO 4591
Tear elongation at break	%	500	500	200	200	DIN 30672
Tensile strength at break	N / mm ²	3	3	0,75	0,75	DIN 53515
Permeability for water vapour (23°C, 1 layer)	g / m ² ·24h	≤ 5 · 10 ⁻²	≤ 5 · 10 ⁻²	≤ 1 · 10 ⁻¹	≤ 1 · 10 ⁻¹	DIN 53122
Permeability for oxygen (23°C, 1 layer)	g / m ² ·24h·bar	≤ 1 · 10 ⁻⁴	≤ 1 · 10 ⁻⁴	≤ 1 · 10 ⁻⁴	≤ 1 · 10 ⁻⁴	DIN 53536
Dielectric strength	kV / mm	40	40	40	40	DIN 53481
Electrical insulation resistance	Ohm · cm	≥ 10 ¹⁵	≥ 10 ¹⁵	≥ 10 ¹⁵	≥ 10 ¹⁵	DIN 53482
max. operating temperature (depending on mechanical stress)	°C	75	75	75	100	-

Application and Quantities Required

Please notice detailed application instructions for DENSOLEN tapes.

Corrosion prevention

The surface to be protected has to be free from loose rust, oil, grease and temporary coatings. Apply DENSOLEN-Tape N by wrapping spirally or as individual strips to

the cleaned, dried and primed metal surface. Wrap DENSOLEN-Tape N with slight and even tension and with uniform overlap. If applied as strips care has to be taken that the tape is firmly pressed to the surface.

Pressfittings

Prime cleaned pressfitting and 30 mm of adjacent plastics cover

with DENSOLEN-Primer. Wrap tape with 50% overlap and slight tension around the fitting. Cover at least 20 mm of the adjacent plastics coating.

Electrical insulation

Wrap DENSOLEN-Tape with slight and even tension spirally around component to be insulated. The substrate should be clean and dry.

Packaging

Rolls with 41-mm cardboard core, in PE-Foil or bag, packed in carton.

DENSOLEN-Tape	Roll length [m]	Standard width [mm]	Carton contents			Weight per carton approx. [kg]
			[Rolls]	[m ²]	[lin m]	
N8	15	30	18	8,1	270	9
		50	12	9,0	180	9,5
		100	6	9,0	90	9,5
N10	12,5	30	18	6,75	225	9
		50	12	7,5	150	10
		100	6	7,5	75	10
E10	12,5	30	18	6,75	225	9
		50	12	7,5	150	10
		100	6	7,5	75	10
		150	6	11,25	75	15
ET100	12,5	30	18	6,75	225	9
		50	12	7,5	150	10
		100	6	7,5	75	10
		150	6	11,25	75	15

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