






Special advantages:

-  For operating temperatures of -40°C (-40°F) to +30°C (86°F).
-  For temperatures of -50°C (-58°F) to +50°C (+122°F).
-  High plasticity and flexibility.
-  Electrically insulating and diffusion re-sistant.
-  Ideally suitable for complex surfaces of pipeline components.

Petrolatum tape for the corrosion prevention of pipelines, pipeline components and metal structures with operating Temperatures up to +30°C (+86°F).

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

DENSO[®]-Flex is a petrolatum tape that can be processed cold for the corrosion prevention encasement of pipelines and pipelines components, e.g. armatures, flange connections, branches and other metallic structures, in soil and water.

Beyond the application of pipeline construction, DENSO[®]-Flex finds use in metal structures, grounding of lightning rods, pre-pressed anchors and many other components.

DENSO[®]-Flex consists of an impregnated polypropylene carrier nonwoven, which is coated on both sides with a corrosion prevention petrolatum mastic. In addition DENSO[®]-Flex provides a single side laminated PP film, which prevents a washing out of

the protective mass, e.g. caused by rising or falling groundwater.

DENSO[®]-Flex is based on more than 90 years of experience of the DENSO Group Germany in the production of high quality corrosion prevention products on petrolatum basis.

The plastic petrolatum mastic of DENSO[®]-Flex completely moistens the surface to be protected and seals it reliably against corrosive media such as water and oxygen.

DENSO[®]-Flex has a thickness of 1.5 mm and therefore offers a tight encasement already with one winding process with 50% overlap with a significantly higher mechanical resistance than comparable petrolatum tapes.

Components for which a spiral type wrapping is not possible can be protected with DENSO[®]-Flex using a layer by layer application.

Compatible equalization and modeling mastics on petrolatum basis are available with **DENSO[®]-PF Mastic** and **DENSO[®]-Plast Mastic** for the encasements of flanges and other complex geometries.

A rockshield **DEPROTEC[®]-DRM PP** or the polyurethane glass fiber fabric **DEPROTEC[®]-PUR** can be applied across the encasement to achieve an increased mechanical protection.

Typical product properties

Property	Unit	Typical value	Required value	Test method
Thickness	mm	≥ 1.5	-	-
Carrier	-	Polypropylene nonwoven	-	-
Thickness PP laminate film	µm	100	-	-
System design	Primer	No primer	-	-
	Encasement	2 layers	-	-
Specific electrical encasement resistance	Ω m ²	≥ 3*10 ⁷	≥ 10 ⁶	EN 12068
Cathodic disbondment 28 days, +23°C (+73.4 °F)	mm	≤ 4	≤ 20	EN 12068
Impact resistance	J	>2		EN 12068
Indentation resistance (0.1 MPa)	mm	>2	>0.6	EN 12068
Drip resistance +50°C (+122 °F), 48h	-	No dripping	No dripping	EN 12068
Low temperature unrolling test +5°C (+23 °F)	-	passed	No separation, no crack development	EN 12068
Saponification value petrolatum mastic	mg(KOH)/ g	≤10	<25	EN 12068

Ordering information and packaging

Roll length 10 m

Roll width [mm]	Rolls per box	Tape length per box (m)	Tape surface per box (m ²)	Weight per box app. [kg]
30	18	180	5,4	9,2
50	12	120	6,0	8,9
100	6	60	6,0	8,8

Additional dimensions available on request.

Storage

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

Storage temperature: ≤ +30°C (+86°F)

The product must be stored dry, without load on the front surface.

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