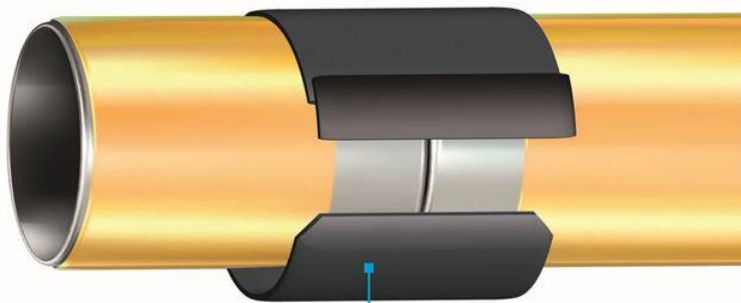


DEKOTEC®-MTS55

Product information



DEKOTEC®-MTS55

Special advantages:

- For operating temperatures up to +60°C (+140°F).
- Two-layer system.
- Sandblasting the steel surface and preheating are not required.
- Fulfills the requirements of EN 12068-C 50 and DIN 30672-C 50.
- Fulfills the requirements of ISO 21809-3; Type 14A-1.
- Outstanding lap shear strength and peel strength.

All-round mastic sleeve solution for protecting welded seams on steel pipes against corrosion.

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

DEKOTEC®-MTS55 is a heat shrinkable sleeve consisting of an electron beam cross-linked polyethylene backing and a mastic adhesive for the corrosion prevention of the field joints at steel pipes.

DEKOTEC®-MTS55 will be applied directly on ST2-cleaned surfaces in accordance with ISO 8501-1. Sandblasting and a primer are not required.

Due to the combination of a robust PE carrier film and a strongly adhesive adhesion coating of the two-layer encasement system DEKOTEC®-MTS55 provides outstanding corrosion prevention and

an easy and time-saving processing.

Significant time and cost savings are archived and an increased safety against application mistakes is provided due to the elimination of the extensive pre-heating process*.

DEKOTEC®-MTS55 can be used on pipes with factory coatings made of PE, PP, FBE, PU and Bitumen.

In addition, all requirements of EN 12068 and DIN 30672 of **class C** will be achieved **at operating temperatures of +55 °C (+131°F)**.

DEKOTEC®-MTS55 represents a reliable corrosion prevention for operating temperatures +60 °C (+140 °F).

If required DEKOTEC®-MTS55 can be used together with the **DEKOTEC®-EP Primer**, which means that a three-layer coating system is achieved.

Additional heat shrinkable sleeve types are available for higher operating temperatures by using **DEKOTEC®-HTS70** +70 °C (+158°F), **DEKOTEC®-HTS90** +90 °C (+194 °F) and **DEKOTEC®-HTS100** +100 °C (+212 °F). **DEKOTEC®-MTS30** is an economic alternative for lower temperature requirements.

* Drying of the surface is adequate to meet the standard requirements. By additionally preheating the surface, peel strength values can be achieved which are well above the standard requirements.

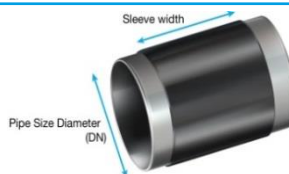
Typical product properties

	Property	Unit	Typical value	Required value	Test method	
Adhesive	Softening point ring and ball	°C(°F)	>+85(>+185)	Not stated	ASTM E28	
	Lap shear strength	+23°C/ +73°F	N/cm ²	>100	≥5	EN 12068
		+50°C/ +122°F	N/cm ²	≥10	≥5	EN 12068
Backing	Elongation at break	%	>500	Not stated	EN 12068	
	Tensile strength	N/mm	>20	Not stated	EN 12068	
		MPa (psi)	≥20 (2900)	Not stated	ASTM D638	
	Dielectric strength	kV / mm	≥35	Not stated	ASTM D149	
	Volume resistivity	Ω · cm	≥10 ¹⁵	Not stated	ASTM D257	
	Hardness	Shore D	≥55	Not stated	ISO 868 / ASTM D2240	
System	Specific electrical insulation resistance	Ω · m ²	≥10 ¹⁰	≥ 10 ⁸	EN 12068	
	Indentation resistance*	+23°C/ +73°F	mm	>2.1	≥0.6	EN 12068 (10 MPa)
		+50°C/ +122°F	mm	>1.5	≥0.6	EN 12068 (10 MPa)
	Impact resistance*	J	>15	>15	EN 12068	
	Peel strength on pipe surface	+23°C/ +73°F	N / cm	>28	≥10	EN 12068
		+50°C/ +122°F	N / cm	≥2.5	≥1	EN 12068
		+55°C/ +131°F	N / cm	>2.2	≥1	EN 12068
	Peel strength on PE factory coating	+23°C/ +73°F	N / cm	>28	≥ 4	EN 12068
		+55°C/ +131°F	N / cm	>2.8	≥0.4	EN 12068
Cathodic disbondment resistance (radius)	mm	<7	<20	EN 12068		

* Values for the sleeve thickness 2.6 mm (type S).

Ordering information and packaging

DEKOTEC®-MTS55 – S – 450MM – DN600



Nominal pipe diameter	Sleeves per box (pcs)
DN300	9
DN600	6
DN900	4

Additional information about package sizes can be obtained on request.

Pipe diameter (DN)				
DN 30 – DN 3000				
Sleeve width (mm)				
350, 450, 550, 650				
Type designation				
T	L	D	S	
0,7	1,0	1,0	1,0	Thickness PE film (mm)
1,1	1,2	1,4	1,6	Thickness coating (mm)
1,8	2,2	2,4	2,6	Total thickness (mm)
30	25	20	20	Length master roll (m)

The listed dimensions refer to the delivery condition. Additional dimensions available on request.

Customize sleeves include closure patches. **DEKOTEC®-CLP** closure patches are available for master rolls.

Storage

When stored in its original, unopened packaging, **DEKOTEC®-MTS55** 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.

DENSO GmbH

Felderstrasse 24 | 51371 Leverkusen | Germany
 Phone: +49 214 2602-0 | info@denso-group.com
www.denso-group.com

Our product information, application recommendations and other printed publications provide advice to the best of our knowledge and indicate our level of knowledge at the time of printing. The content is not legally binding. Therefore, no liability is assumed for incorrect and missing advice. The applicator is obliged to check the suitability and possibility of application for the intended purpose. Unless otherwise specified, all of the brands named are trademarks of DENSO, at least registered in Germany, which are protected by law.

Only our general terms and conditions of sale, which you will find at www.denso-group.com, apply. This is a translation from the original German product information. In case of any discrepancy or any dispute arising from the interpretation, the German text of the respective German product information, which is available at www.denso-group.com, shall be decisive. The legal relationship shall be governed by German law.

03.2023