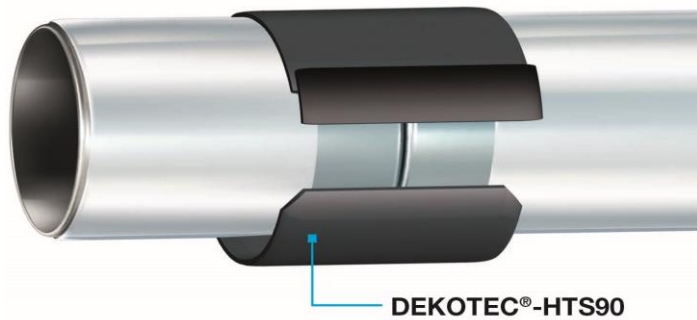








DEKOTEC®-HTS90

Product information



Special advantages:

-  For operating temperatures up to +90°C (+194°F).
-  Three-layer system equivalent to 3LPE.
-  Fulfills EN 12068-C HT 80 UV and DIN 30672-C HT 80 UV.
-  Approvals in accordance with GOST R.
-  Outstanding peel strength.
-  Lower preheating temperature than comparable competitive products.

Hotmelt sleeve with high temperature resistance 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®-HTS90 is a heat shrinkable sleeve made of an electron beam cross-linked polyethylene backing and a coating made from hot melt adhesive.

DEKOTEC®-HTS90 provides a permanent corrosion prevention on welding seams at steel pipes and pipelines.

DEKOTEC®-HTS90 can be used as two-layer heat shrinkable sleeve system, or together with **DEKOTEC®-EP Primer**, as a three-layer heat shrinkable sleeve sys-

tem. Both systems have **DIN-DVGW certificates for the stress class C HT 80 UV**.

In addition, DEKOTEC®-HTS90 has an approval in accordance with GOST R 51164-98 (Russia).

The three-layer system consisting of **DEKOTEC®-EP Primer** and **DEKOTEC®-HTS90** provides an increased protection in case of damages to the encasement as well as an increased safety against failed applications based on the surface preparation with the **DEKOTEC®-EP Primer**.

DEKOTEC®-HTS90 is compatible with factory coatings made of PE, PP, FBE, PU and Bitumen.

Beyond the standard classification, DEKOTEC®-HTS90 can be used for permanent operating temperatures of up to +90°C (+194°F).

For lower temperature requirements, **DEKOTEC®-HTS70** +70°C (+158°F), **DEKOTEC®-MTS55** and **DEKOTEC®-BTS60** +60°C (+140°F) as **DEKOTEC®-MTS30** +30°C (+86°F) are available as high quality and cost effective alternatives.

Typical product properties

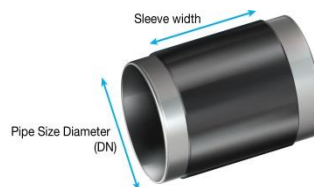
DEKOTEC®-HTS90 with DEKOTEC®-EP Primer

	Property	Unit	Typical value	Required value	Test method	
Adhesive	Softening point	°C(°F)	>+110(>+230)	Not stated	ASTM E28	
	Lap shear strength	+23°C(+73°F)	N/cm ²	>275	≥5	EN 12068
		+80°C(+176°F)	N/cm ²	≥6	≥5	DIN 30672
Backing	Elongation at break	%	>500	-	EN 12068	
	Tensile strength	N/mm	>20	-	EN 12068	
		MPa (psi)	>20 (2900)	-	ASTM D638	
	Elongation at break after thermal aging (21 days at +150 °C / +302 °F)	%	>500	-	ASTM D638	
	Lap shear strength after thermal aging (21 days at +150 °C / +302 °F)	MPa	>20	-	ASTM D638	
	Dielectric strength	kV / mm	>35	-	ASTM D149	
	Volume resistivity	Ω · cm	≥10 ¹⁵	-	ASTM D257	
	Water absorption	%	<0.1	-	ASTM D570	
	Hardness	Shore D	≥55	-	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	≥0.6	EN 12068
		+80°C(+176°F)	mm	≥1	≥0.6	EN 12068
	Impact resistance*	J	≥20	>15	EN 12068	
	Peel strength on pipe surface	+23°C(+73°F)	N / cm	>65	≥5	EN 12068
		+80°C(+176°F)	N / cm	≥2	>0.5	
	Peel strength on PE factory coating +23°C(+73°F)	N / cm	≥50	≥4	EN 12068	
Cathodic disbondment resistance (radius)	mm	<8.5	<20	EN 12068		

The listed values are based on a sleeve thickness of 2.6 mm (type S).

Ordering information and packaging

DEKOTEC®-HTS90 – S – 450MM – DN600



Nominal values	Sleeves per box (pcs.)
DN100	25
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	H	
1,0	1,0	1,0	1,0	1,0	Thickness PE film (millimeter)
0,8	1,2	1,4	1,6	1,8	Thickness coating (millimeter)
1,8	2,2	2,4	2,6	2,8	Total thickness (mm)
30	25	20	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®-HTS90** 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

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