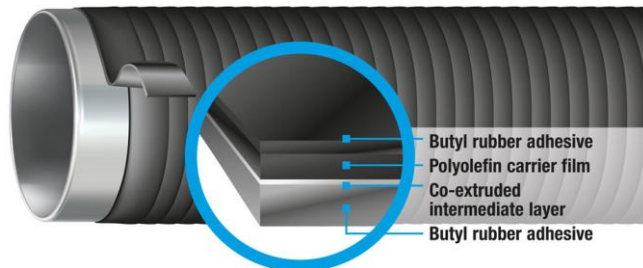


DENSOLEN®-AS40 HT



Product information

Special advantages:



For operating temperatures up to +100°C (+212°F).



Fulfils EN 12068-C80 and DIN 30672-C80.



Fulfils ISO 21809-3; Type 12A-3.



Fulfils ISO 21809-3 at +100°C (+212°F), in a **2-layer application with just one wrapping process.**



Excellent shear strength even at maximum operating temperature.



Cost-effective use by hand or with DENSOMAT® wrapping devices.

Single tape system resistant to high temperatures for lasting corrosion prevention for metal pipes and pipelines, particularly at operating temperatures up to +100°C (+212°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.

Product description

DENSOLEN®-AS40 HT sets a new benchmark as a **single tape system** suitable for cold processing and resistant to high temperatures. A patent provides the impressive testament to the product's unique composition.

Thanks to the innovative formula, the tapes fuse together completely in the overlap area and create a long-lasting hose-type coating.

DENSOLEN®-AS40 HT has **outstanding properties**, particularly in combination with the primer specially formulated to resist higher temperatures, **DENSOLEN®-HT100 Primer**. Just **one wrapping process** with 50% overlap **suffices** to fulfil the requirements of ISO 21809-3.

With a 4-layer application, you can further **increase the effect of the properties significantly.**

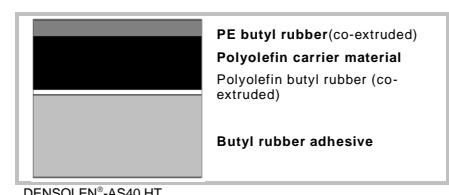
Even at the **maximum operating temperature** you will obtain **excellent shear strength**, regardless of the number of layers you have selected.

The outstanding economic and qualitative properties of DENSOLEN®-AS40 HT allow you to achieve a **cost-efficient coating.**

DENSOLEN®-AS40 HT is impermeable against water vapour and oxygen and it is resistant against soil bacteria and soil electrolytes.

As a **genuine, co-extruded 3-layer** plastic tape, it has an **excellent bond between adhesive and carrier film. It consists** of stabilised polyolefin carrier material with a butyl rubber adhesive on both sides. DENSOLEN®-AS40 HT is compatible with factory coatings made of PE, PP, FBE, PU and bitumen.

DENSIT®-AL and **DENSIT®-PB** are other products available to you for use **above ground**: they are also visually appealing and reduce the UV strain.



DENSOLEN®-AS40 HT

Typical product properties

| Property | Unit | Typical value | Test method |
|----------------------------------|-------------------------------------|--------------------|------------------------|
| Outside colour | - | Black | - |
| Inside colour | - | grey | - |
| Total thickness | mm | ≥ 0.8 | ISO 4591 ASTM D1000 |
| Outer adhesive layer thickness | mm | ≥ 0.08 | |
| Carrier film thickness | mm | ≥ 0.28 | |
| Inside adhesive layer thickness | mm | ≥ 0.44 | |
| Elongation at break | % | 600 | |
| Tape strength | +23°C (+73°F) N / cm | 100 | EN 12068 |
| Electrical insulation resistance | Ω m ² | ≥ 10 ¹⁰ | EN 12068 |
| Dielectric strength | kV / mm | ≥ 40 | DIN 53481 |
| Water absorption | +23°C (+73°F) day / 30 days % | ≤ 0.1 / ≤ 0.4 | DIN 53495 ASTM D570 |

DENSOLEN®-AS40 HT with DENSOLEN®-HT100 Primer

| Property | Test temperature | Unit | Typical value | | Test Standard |
|---|------------------|-------------------|---------------|---------|---------------|
| | | | 2-layer | 4-layer | |
| Impact resistance | +23°C (+73°F) | J/mm | ≥ 4.3 | ≥ 6.0 | ISO 21809-3 |
| Indentation resistance (residual layer thickness) | +23°C (+73°F) | mm | ≥ 0.9 | ≥ 2.0 | |
| | +100°C (+212°F) | | ≥ 0.6 | ≥ 1.3 | |
| Cathodic disbondment resistance (28 days) | +23°C (+73°F) | mm | ≤ 5 | | |
| Peel strength (inner layer/inner layer) (inner layer/outer layer) (outer layer/outer layer) | +23°C (+73°F) | N/cm | ≥ 35 | | |
| Peel strength (steel surface) | +23°C (+73°F) | N/cm | ≥ 18 | | |
| Peel strength (factory coating) | +23°C (+73°F) | N/cm | ≥ 18 | | |
| Lap shear strength | +23°C (+73°F) | N/cm ² | ≥ 20 | | |
| | +100°C (+212°F) | | ≥ 4 | | |

DENSOLEN® tapes can be easily applied by hand. It is even more efficient to work with the tape with the original DENSO MAT® wrapping devices. For DENSOLEN® tapes with widths of > 50 mm, we recommend the use of the DENSO MAT® wrapping device to guarantee an excellent processing quality.

Ordering information and packaging

| | Width [mm] | Length [m] | m ² /roll | Rolls | Content per box | | |
|--------------------------------|------------|------------|----------------------|-------|-----------------|--------|--------------|
| | | | | | m ² | lin. m | kg (approx.) |
| DENSOLEN®-AS40 HT core Ø 41 mm | 50 | 15 | 0.75 | 12 | 9.0 | 180 | 10 |
| | 100 | | 1.50 | 6 | 9.0 | 90 | 10 |
| | 150 | | 2.25 | 6 | 13.5 | 90 | 15 |
| DENSOLEN®-AS40 HT core Ø 78 mm | 100 | 70 | 7.00 | 3 | 21.0 | 210 | 19 |
| | 150 | | 10.50 | 2 | 21.0 | 140 | 19 |

Additional lengths and widths are available on request.

Storage

When stored in its original, unopened packaging, DENSOLEN®-AS40 HT can be stored for at least 24 months after the manufacturing date.

Storage temperature: ≤ +40°C (+104°F)

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

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