

Kebulen Heat shrinkable sleeve C50

PRODUCT DATA SHEET

- Standard classification C50
- High tearing resistance
- Butyl rubber adhesive
- Resistant to soil stress
- Doesn't require primer
- Superior in-ground performance



Kebulen Heat shrinkable sleeve C50 is a hot applied shrink sleeve according to EN 12068, DIN 30672 and ISO 21809-3. It provides reliable corrosion protection due to its outstanding mechanical strength and its low permeability to moisture and oxygen. **Kebulen Heat shrinkable sleeve C50** meets the standard classifications C 50.

The carrier of **Kebulen Heat shrinkable sleeve C50** stands out due to high tearing resistance and robustness against overheating during application with open flame. Due to high viscosity at high temperature coatings with butyl rubber are superior to conventional hot melt adhesives. Butyl rubber doesn't melt but softens so that it flows into voids and coves under the shrinking strain pressure. Thus, the material prevents voids instead of building them. This prevents the coating from wandering underneath the carrier and resulting differences of the thickness of the coating or even from oozing out of the coating.

STRUCTURE

Kebulen Heat shrinkable sleeve C50 consists of a carrier made of stabilized, cross-linked polyethylene which is coated on the inside with permanently plastic material based on butyl rubber. After professional preparation of the pipe surface the shrinkable sleeve doesn't require any primer.

COATING

Kebulen Heat shrinkable sleeve C50 is compatible with factory coatings of PE, PP, epoxy resin, PU and bitumen and ductile steel pipes. It can be used for **Field Joint Coating, Coating Rehabilitation and Coating Repair**.

FORMS OF DELIVERY

| | Length of roll [m] | Width of roll [mm] |
|---------|--------------------|--------------------|
| HSS C50 | 30 | 450 |

| | Pipe diameter [DN] | Sleeve [mm] |
|-------------------|--------------------|-------------|
| HSS C50 assembled | 100 | 475 |
| | 125 | 550 |
| | 150 | 655 |
| | 200 | 800 |
| | 250 | 975 |
| | 300 | 1140 |
| | 400 | 1440 |
| | 500 | 1810 |
| | 800 | 2730 |

Other dimensions on request

Preserving values.

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PROPERTIES

| Property | Unit | Typical value | Standard |
|---|-------------------|----------------|----------------------------|
| Total thickness | mm | ≈ 2,5 | DIN EN 12068 / ASTM D 1000 |
| Elongation at break | % | ≥ 600 | DIN EN 12068 |
| Elongation at break after thermal aging (100d) | % | ≥ 600 | DIN EN 12068 |
| Tensile strength | N/mm | ≥ 40 | DIN EN 12068 |
| Hardness | Shore D | ≥ 50 | DIN 53505 / ISO 868 |
| Impact resistance | J | ≥ 15 | DIN EN 12068 |
| Water absorption | % | ≤ 0,05 | DIN EN ISO 62 |
| Indentation resistance residual layer thickness | mm | 50 °C ≥ 0,7 | DIN EN 12068 |
| Cathodic disbondment resistance Radius @ 50 °C | mm | ≤ 4 | DIN EN 12068 |
| Dielectric strength | kV/mm | 44 | ASTM D 149 |
| Peel strength | | 23 °C 50 °C | |
| - on pipe surface at 10 mm/min | N/mm | ≥ 2,0 ≥ 0,2 | DIN EN 12068 |
| - on factory coating at 10 mm/min | N/mm | ≥ 1,5 ≥ 0,2 | DIN EN 12068 |
| Lap shear strength at 10mm/min | | 50 °C | |
| - to pipe surface | N/mm ² | ≥ 0,05 | DIN EN 12068 / ISO 21809-3 |
| - to PE/PP-factory coating | N/mm ² | ≥ 0,05 | DIN EN 12068 / ISO 21809-3 |

Standard classification:

DIN EN 12 068; ISO 21809-3 (up to 50°C) and
DIN 30 672 – C 50



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The information given in this publication is based on our knowledge and experience. The hints and instructions for use given therein have been compiled to the best of our knowledge on the basis of our tests and experience. Best results will be obtained if our products are used in a proper and expert way. Any protected rights and existing laws and regulations must be complied with the recipient. In all other respects our general terms and conditions shall apply.
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