

## tesa® 4600 Xtreme Conditions HD Self-fusing silicone tape for heavy duty applications

tesa® 4600 Xtreme Conditions HD is one of tesa's premium tapes. It is a strong self-amalgamating silicone tape which seals with itself without adhesive. It is applied with tension by wrapping the tape around itself. tesa® 4600 Xtreme Conditions HD creates a water tight, permanent sealing. No drying time is required. Its flexible material can be applied smoothly on any kind of surface, including wet or warm, dirty or oily. Xtreme Conditions can even be applied under water.

Due to its silicone backing the tape has an excellent resistance to various chemical substances, oils, acids, solvents, salt water, UV radiation and extrem temperatures.

tesa® 4600 for heavy duty applications comes with a thickness of 750µm and with a roll length of 10m. Xtreme Conditions is available in black and always comes with a liner.

### Main Application

- Insulating and protecting wiring and connections
- Sealing applications in engine compartment
- Wrap hydraulic fittings and other exposed metal connections to prevent corrosion
- Masking applications in powder coating, liquid coating, e-coating, anodizing and plating
- Automotive applications for wire harness as well as general repairs
- Various bundling, securing, wrapping and repairing applications

.... and many others! Do not hesitate to ask tesa for more information!

### Technical Data

|                       |         |                                |            |
|-----------------------|---------|--------------------------------|------------|
| ▪ Total thickness     | 750 µm  | ▪ Temperature resistance min.  | -60 °C     |
| ▪ Elongation at break | 450 %   | ▪ Temperature resistance max.  | 260 °C     |
| ▪ Tensile strength    | 45 N/cm | ▪ Dielectric breakdown voltage | 12000 volt |

### Properties

|                          |        |                       |      |
|--------------------------|--------|-----------------------|------|
| ▪ Hand tearability       | ●      | ▪ Abrasion resistance | ●●●● |
| ▪ Easy to remove         | yes    | ▪ Water resistance    | ●●●● |
| ▪ Certified according to | UL 510 |                       |      |

Evaluation across relevant tesa® assortment: ●●●● very good ●●● good ●● medium ● low

For latest information on this product please visit <http://l.tesa.com/?ip=04600>

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#### Additional Information

- Stretch the tape to at least double its normal length. Apply it tight on the surface and overlap it tight around itself.
- To serve the best purpose for standard electrical applications wrap 3 time with 100% overlapping.
- For high pressure leaks (e.g. sealing of pipes) the tape should be stretched very tight and several layers should be used. Depending on the leak and pipe material the tape can withstand a pressure of 12 bar max. Please use max. 4 layers with approx. 100mm tape on both sides of the damaged pipe.
- Due to the self-fusing process, after applying the tape on itself, a permanent bond is created. Therefore, the tape can be used once.
- Please be aware: Xtreme Condition is not compatible with drinking water

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