

tesa® Professional 4600 Xtreme Conditions



Product Information

Self-welding silicon tape for an instant hermetic seal

tesa® 4600 is a self-welding silicon tape that is glued onto its own base. The flexible material fits tightly to various surfaces, thus providing an instant hermetic seal. The self-welding repair tape can be used both indoors and outdoors and also achieves reliable results on oily, dirty or wet surfaces. Even the application under water is possible. The silicon base ensures that the robust tape provides a high resistance to various chemicals, oils, acids, solvents, salt water, UV exposure and high temperatures (from -65° C to +260° C). The silicon tape can also be used for temporary bonds and can be removed at any time without problems. tesa® 4600 is a true jack of all trades and is used by professional craftsmen for many kinds of tasks, e.g. insulating cables or for short-term repairs of water pipes.

Main Application

- Insulating and protecting wiring and connections
- Sealing applications in engine compartment
- Various bundling, securing, wrapping applications in the marine industry
- Wrap hydraulic fittings and other exposed metal connections to help prevent corrosion
- Masking applications in powder coating, liquid coating, e-coating, anodizing and plating
- Automotive applications for wire harness, general repairs
- Marine applications for boat rigging or securing ends of rope

Technical Information (average values)

The values in this section should be considered representative or typical only and should not be used for specification purposes.

Technical Data

• Backing material	stretchable specialty	• Temperature resistance min.	-60 °C
• Total thickness	500 µm	• Temperature resistance max.	260 °C
• Elongation at break	750 %	• Dielectric breakdown voltage	8000 volt
• Tensile strength	33 N/cm		

Properties

• Hand tearability	●	• Abrasion resistance	●●●●
• Easy to remove	Yes	• Water resistance	●●●●

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

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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

Disclaimer

tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you.



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