

Novasil®

S 46 SP 5189

Technical Datasheet

Characteristics:

- Neutral curing 1-component silicone filling compound
- Free-flowing
- Especially matched viscosity
- Very good temperature resistance
- Cures at room temperature
- Excellent primerless adhesion on numerous substrates - even when exposed to water
- High adhesion strength

Fields of application:

- Bonding and sealing of irons
- Encapsulating/bonding and sealing of structural components like heating rods
- Encapsulating of electronic components
- Bonding and sealing of structural components exposed to high temperatures like heat exchangers

Important information:

Before applying this product the user has to ensure that the materials in the area of contact (solid, liquid and gaseous) are compatible with it and also amongst each other and do not damage or alter (e. g. discolour) each other. As for the materials that will be used at a later stage in the surrounding area of the product the user has to clarify beforehand that the substances of content or evaporations do not lead to an impairment or alteration (e. g. discolouration) of the product. In case of doubt the user should consult the respective manufacturer of the material.

During the curing process of the material reaction products of the crosslinker are released.

Ensure good ventilation during application and curing.

After curing the product is completely odourless, physiologically harmless and unmodified.

The required vulcanization time prolongs with increasing thickness of the silicone layer. One-component silicones must not be used for full-surface bonding applications unless special constructional prerequisites are met. If one-component silicones are to be used for thickness layers of more than 15 mm please contact our technical department beforehand.

Paints, lacquers, plastics and any other coatings must be compatible to the adhesive/sealant.

Technical properties:

Skin-forming time at 23 °C/50 % RAH [minutes]	~ 20
Curing in 24 hours at 23 °C/50 % RAH [mm]	~ 2
Processing temperature from/to [°C]	+ 5 / + 40
Viscosity (Physika LC 10, 23 °C) [mPas]	~ 20 000
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,1
Stress expansion modulus at 100 % according to ISO 37, S3A [N/mm²]	~ 0,6
Tensile expansion according to ISO 37, S3A [%]	~ 250
Tensile strength according to ISO 37, S3A [N/mm²]	~ 0,9
Temperature resistance from/to [°C]	- 40 / + 285
Shelf life at 23 °C/50 % RAH for cartridge/foil bag [months]	6
Shelf life at 23 °C/50 % RAH for pail/drum [months]	6

These data are not suitable for the issue of specifications. Please contact OTTO-CHEMIE before issuing specifications.

Pretreatment:

All adherent surfaces must be clean and any contaminant such as release agents, preserving agents, grease, oil, dust, water, old adhesives or sealants and other substances which could affect adhesion,

should be removed.

The adherent surfaces have to be clean, free from fat, dry and sustainable.

The demands on elastic sealings and bondings depend on the respective exterior influences. Extreme fluctuations in temperature, tensile or shear forces, repeated contact with water etc. demand high requirements of a bonding. In such cases it is advisable to apply primer in order to achieve a resilient bonding. Please consult our technical department.

Application information:	Due to the many possible influences during and after application, the customer always has to carry out trials first. We recommend to store our products in unopened original packagings dry (< 60 % RAH) at temperatures of +15 °C up to +25 °C. If the products are stored and / or transported at higher temperatures / air humidity for longer periods (some weeks), a diminution of durability or a change of material characteristics may arise.
Packaging:	Packagings on request
Colours:	red-brown
Safety precautions:	Please observe the material safety data sheet.
Disposal:	Information about disposal: Please refer to the material safety data sheet.
Warranty information:	All information in this publication is based on our current technical knowledge and experiences. However, since conditions and methods of use and application of our products are beyond our control, we suggest you to test the product before final use. Information given in this technical data sheet and explanations of OTTO - CHEMIE in connection with this technical data sheet (e. g. service description, reference to DIN regulations etc.) is not to be seen as a warranty. Warranties require a separate written declaration of OTTO – CHEMIE to prove their validity. The characteristics stated in this data sheet define the characteristics of the article broadly and conclusively. Suggestions of use are not to be taken as confirmation of the appropriateness for the recommended intended use. We reserve the right to alter the product adjusting it according to technical progress and new developments. We are at your disposal both for inquiries as well as specific application problems. If a governmental approval or clearance is necessary for the application of our products, the user is responsible for the obtainment of such. Our recommendations do not excuse the user from the obligation to take into consideration the possibility of infringement of third parties' rights and - if necessary – resolving it. For the rest our general terms and conditions apply, in particular regarding a possible liability for defects. You can find our general terms and conditions on our homepage: http://www.otto-chemie.com.