

Data sheet

revised on 23.05.2022

innovatek High Silver Thermal adhesive



Data sheet

Properties and technical information

innovatek High Silver Thermal adhesive

Processing times 5, 15 and 60 minutes, depending on version

Physical properties

Below you will find the technical data for our high-performance thermal adhesive. The crosslinking 2-component contact agent convinces with a high thermal conductivity, an easy application as well as an irreversible bonding.

Shape	viscous (pasty)
Color	silver-gray
Odor	Part A: Light epoxy odor Part B: Light sulfur odor Cross-linked: Odorless
Flash point	above 100 °C
Ignition temperature	above 350 °C
Density (20 °C)	approx. 2.23 g/cm ³
Solubility in water	insoluble (cross-linked)
pH value	not applicable
Viscosity (20 °C)	approx. 1,000 mPa*s
Thermal conductivity	approx. 7.5 W/K*m (non-crosslinked) approx. 4 W/K*m (crosslinked)
Package content, depending on version	2x 4 g 2x 10 g

Use, field of application

We recommend the use of our thermal conductive adhesive for the following applications:

- Improvement of the thermal connection of components
- Temperature range up to 120 °C
- Use in vacuum (technical vacuum, not suitable from HV)
- Attachment or contacting
- Gap-filling up to approx. 0.5 mm

Preparation and processing

All surfaces should be as even as possible and free of dust and grease. The quality of the surfaces has a decisive influence on heat transfer. The components must be mechanically secured (fixed) against each other until curing.

Recommended:

- Milled surfaces with average peak-to-valley height $R_z < 2.5 \dots 6 \mu\text{m}$
- Optimum contact pressure $2 \dots 3 \text{ kg/cm}^2$

Mix both components 1:1 intensively for about 2 minutes in a round mixing vessel. After mixing, transfer and apply the adhesive thinly and evenly to the contact surface from the new vessel using a suitable aid (e.g. spatula). Subsequently, the coolers or components can be attached and mechanically secured. Please observe the specified processing time (pot life).

The 2-component contact adhesive reaches its basic strength after approx. 10 minutes (depending on temperature) and its final strength after approx. 24 hours.

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Processing times (pot life):

Item no.	Description	Processing time
500068-02	High Silver Thermal adhesive 2x 4 g	5 Minutes
501908-02	High Silver Thermal adhesive 2x 4 g	15 Minutes
501909-02	High Silver Thermal adhesive 2x 4 g	60 Minutes
501946	High Silver Thermal adhesive 2x 10 g	5 Minutes
501947	High Silver Thermal adhesive 2x 10 g	15 Minutes
501948	High Silver Thermal adhesive 2x 10 g	60 Minutes

Absorb excess contact agent and contact agent that swells during application with an absorbent cloth.

Storage

Store in a cool place away from light. Optimum storage temperature: 5...10 °C (refrigerator), shelf life 12 months. If stored at room temperature, use within 6 months. Can be used indefinitely when cross-linked.

Manufacturer / Supplier

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