

## Thermally conductive products

### Thermiglu® TL 23015

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**Description:** Thermiglu® TL 23015 is a one-component, addition-curing silicone. Thermiglu® TL 23015 has good adhesion to many substrates. Thermiglu® TL 23015 cures at temperatures over 100°C to a fixed, stable material in neutral form. Therefore Thermiglu® TL 23015 does not cause any corrosion to sensitive components. Thermiglu® TL 23015 requires no primer.

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**Properties:** Thermiglu® TL 23015 has a very good adhesion and is fast-curing, it is very thermally conductive and a dimensionally stable paste.

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**Usage instructions:** Thermiglu® TL 23015 is delivered prepared. The surfaces to be adhered should be clean, free of grease, dust and loose material as well as dry. The curing time depends on how fast the adhesion meets the temperatures which are necessary for the connection. The adhesive joint of 1 – 2 mm can be cured fast with a heat gun. Greater quantities require convection or infrared oven, an inductive curing is not possible. The curing temperature should not be higher than 200°C, otherwise the curing time decreases in accordance to the increase of the curing temperature. These times are orientated to a convection oven with a constant temperature. An improved adhesion can be met by a temperature area of 120 – 150°C for 1 – 2 hours. At 100°C Thermiglu® TL 23015 cures during 30 minutes. During processing the workplace has to be clean, it should be especially free of nitrogen, sulphur, phosphor and materials based on arsenic, these can cause reactions with the platinum. Furthermore it should be kept in mind that the tools do not contain these materials.

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## Thermiglue® TL 23015

**Standard colour:** Thermiglue® TL 23015 is delivered in grey.

**Delivery forms:** Thermiglue® TL 23015 is delivered in cartridges of 310 ml as standard. Other packaging units on request.

**Storage conditions:** Thermiglue® TL 23015 is durable for 6 months in the unopened original container at a temperature of -5°C up to 10°C under normal conditions.

| Property                                    | Test method    | Unit    | Value             |
|---|----------------|---------|-------------------|
| Colour                                      | Visible        | -       | Grey              |
| Appearance                                  | Visible        | -       | Thixotropic Paste |
| Viscosity                                   | Brookfield     | mPa.s   | 760000            |
| Tensile strength                            | BS903 part A2  | MPa     | 1.50              |
| Elongation at break                         | BS903 part A2  | %       | 80                |
| Rigidity                                    | ASTM D 2240-95 | Shore A | 56                |
| Specific density                            | BS903 part A1  | -       | 2.12              |
| Thermally conductivity                      | Lees Disk      | W/mK    | 3.89              |
| Coefficient of thermal expansion volumetric | -              | ppm/°C  | 372               |
| Coefficient of thermal expansion linear     | -              | ppm/°C  | 124               |
| Temperature area                            | AFS 1540B      | °C      | -50 up to +210°C  |
| Volume resistivity                          | ASTM D-257     | Ω.cm    | 4,6E+12           |

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## Thermiglue® TL 23015

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**Trademark information:** Thermiglue® is a registered trademark of the Dr. Dietrich Müller GmbH, Germany.

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**Please note:**

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.

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