

LOCTITE®

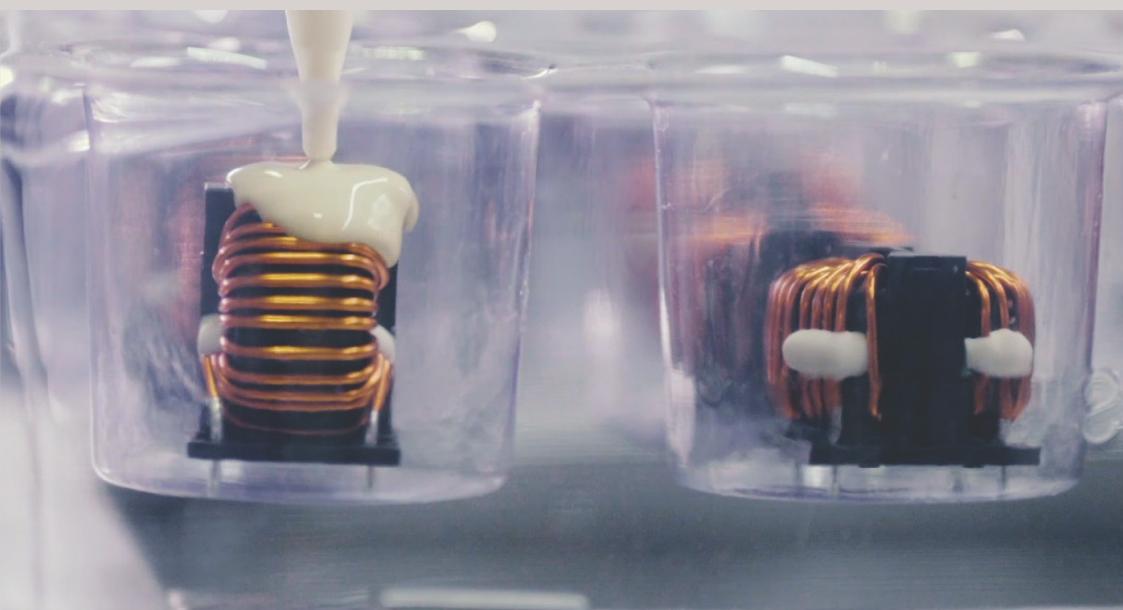
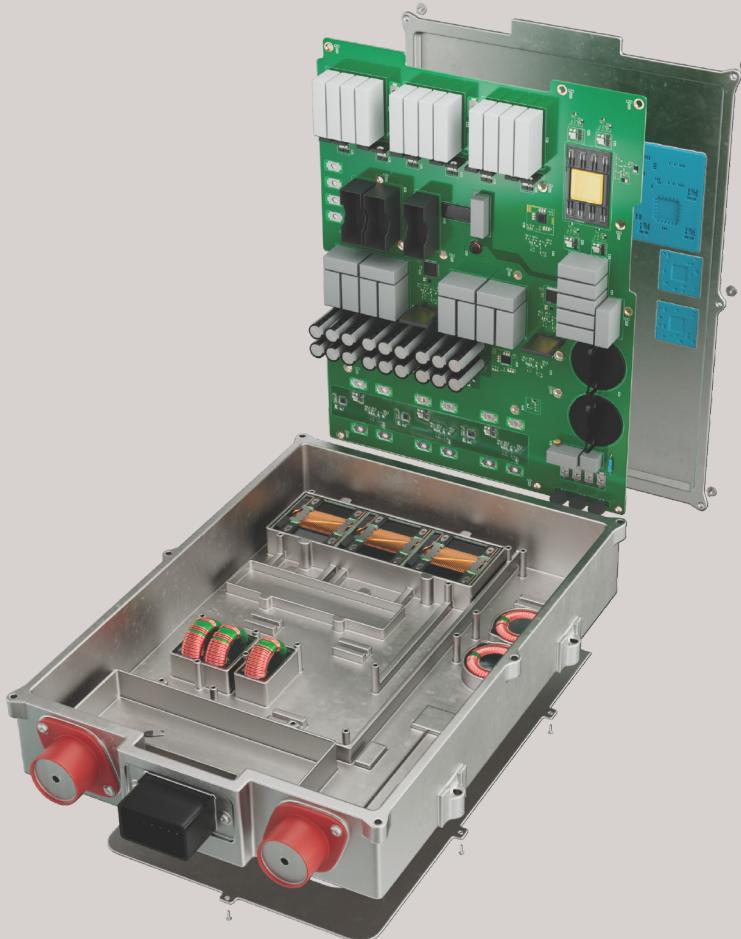
LOCTITE® SI 5643

Two-component, fast curing, low viscosity thermally conductive potting compound for electronic assembly application.



Features & Benefits

- Exceptional and fast flowing behavior
- Pourable, fast, and self-leveling
- Capable of filling small gaps
- Provides excellent heat transfer
- Very soft to protect sensitive components
- Yellow in color, enabling easy automated optical inspection



Henkel

LOCTITE®

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Two-component, fast curing, low viscosity thermally conductive potting compound for electronic assembly application.

Typical Applications

Heat dissipation and complete gap filling for high-reliability protection of sensitive electronic components in high-power EV charging applications.

Applicable to all power conversion components including Inverter, DC/DC converter, and On-Board Charger (OBC). Typical naming conventions include HVBox, OneBox, or configurations such as 3-in-1, 7-in-1, 9-in-1, and other Xin1.



Available Configurations*

- Cartridges: On request
- Pail Kits: 20 liter pail
- Drum Kits: 200 liter drum

[CONTACT US TO LEARN MORE](#)

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Technical Data

| Properties | Typical Value | Test Methods |
|-----------------------|--------------------|----------------|
| Chemistry | 2K addition cure | - |
| Thermal | silicone 1.4 W/m·K | ASTM D 5470-17 |
| Conductivity Density | 2.5 g/cm³ | ASTM D792 |
| Hardness, Shore 00 | 70% | ASTM D 2240-15 |
| Dielectric Strength | > 14 kV/mm | ASTM D 149 |
| Viscosity @ 25°C, 1 s | 5,500 mPa·s | ASTM D 7867-13 |
| Pot Life @ 25°C | > 20 min | ASTM D 7867-13 |

Product Availability*

- Global

*Availability may change due to high demand. Please contact us for the latest information.



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THERMAL POTTING

LOCTITE® SI 5643

Two-component, fast curing, low viscosity thermally conductive potting compound for electronic assembly application.



Sustainability:

- Non-corrosive
- Cures at low temperatures or room temperature
- Made in Europe: REACH- and RoHS-compliant
- Low VOC (Volatile Organic Compounds)

