

LOCTITE[®]

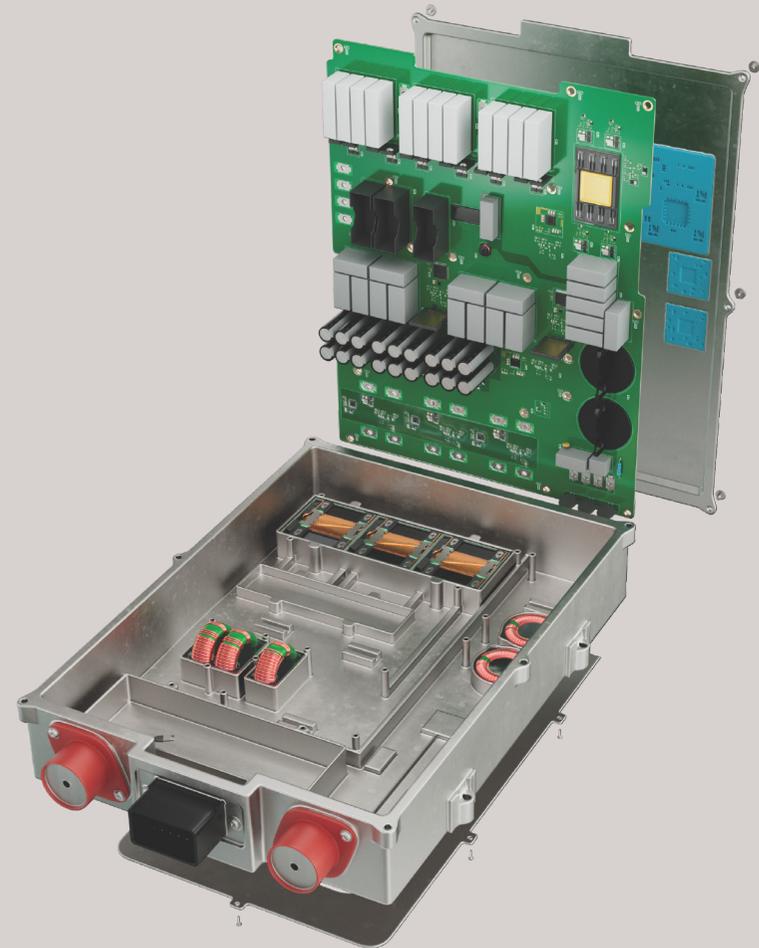
LOCTITE[®] SI 5643

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





LOCTITE® SI 5643

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](#)

Europe
Germany
Henkel AG & Co. KGaA (Headquarters)
Henkelstraße 67, 40589 Düsseldorf

Asia-Pacific
China
Henkel (China) Co., Ltd.
No. 928 Zhangheng Road, Pudong New District
201203 Shanghai

Americas
U.S.A.
Henkel Corporation
Madison Heights, 32100 Stephenson Highway
Madison Heights, MI 48071

Technical Data

Properties	Typical Value	Test Methods
Chemistry	2K addition cure	-
Thermal	silicone 1.4 W/m-K	ASTM D 5470-17
Conductivity	2.5 g/cm ³	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.



The data contained herein is intended as reference only. Some products / package sizes may not be available in your country or may have a lead time. Please contact your local Henkel subsidiary for assistance and recommendation on specifications and applications of these products. ® designates a trademark of Henkel AG & Co. KGaA or its affiliates, registered in Germany and elsewhere
© Henkel AG & Co. KGaA, 2022 (10/2025)



THERMAL POTTING

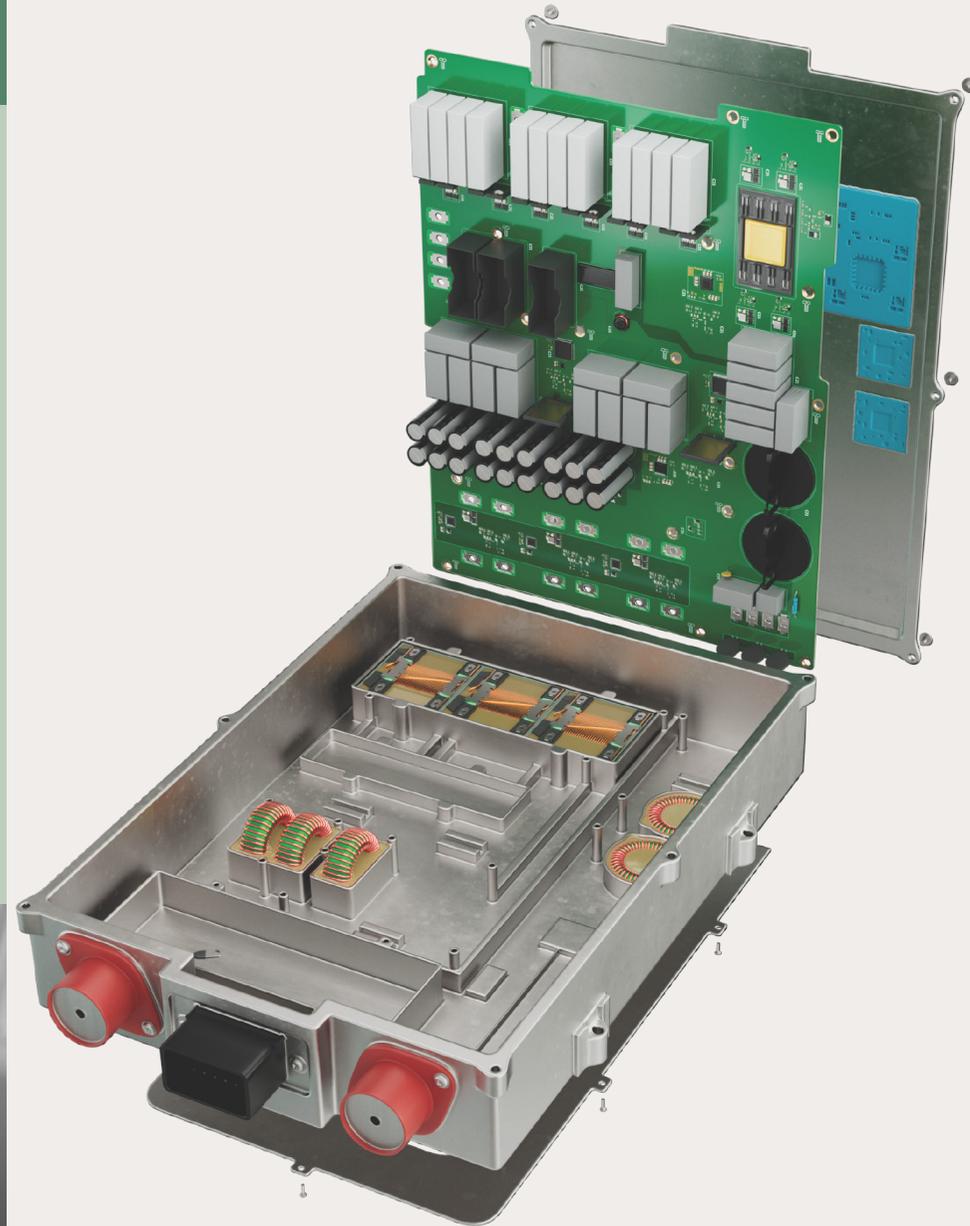
LOCTITE® SI 5643

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)



Henkel