



# LOCTITE® SI 5643

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

## 1 CUSTOMER CHALLENGES

- A major global automotive supplier required a thermal potting solution to for thermal management in sensitive power electronic applications.
- The material was expected to offer protective properties against shock, vibration and thermal stress.
- The customer's high manufacturing volumes necessitated a fast and efficient dispensing and curing process.

## 2 HENKEL SOLUTION

- Henkel developed a two-component, fast curing, low viscosity thermally conductive silicone: LOCTITE® SI 5643.
- The product offers fast flowing and self-leveling properties.
- It features high thermal conductivity, excellent electrical insulation properties, and very stable performance for medium to high volume applications.

## 3 MASS PRODUCTION PROCESS SET-UP

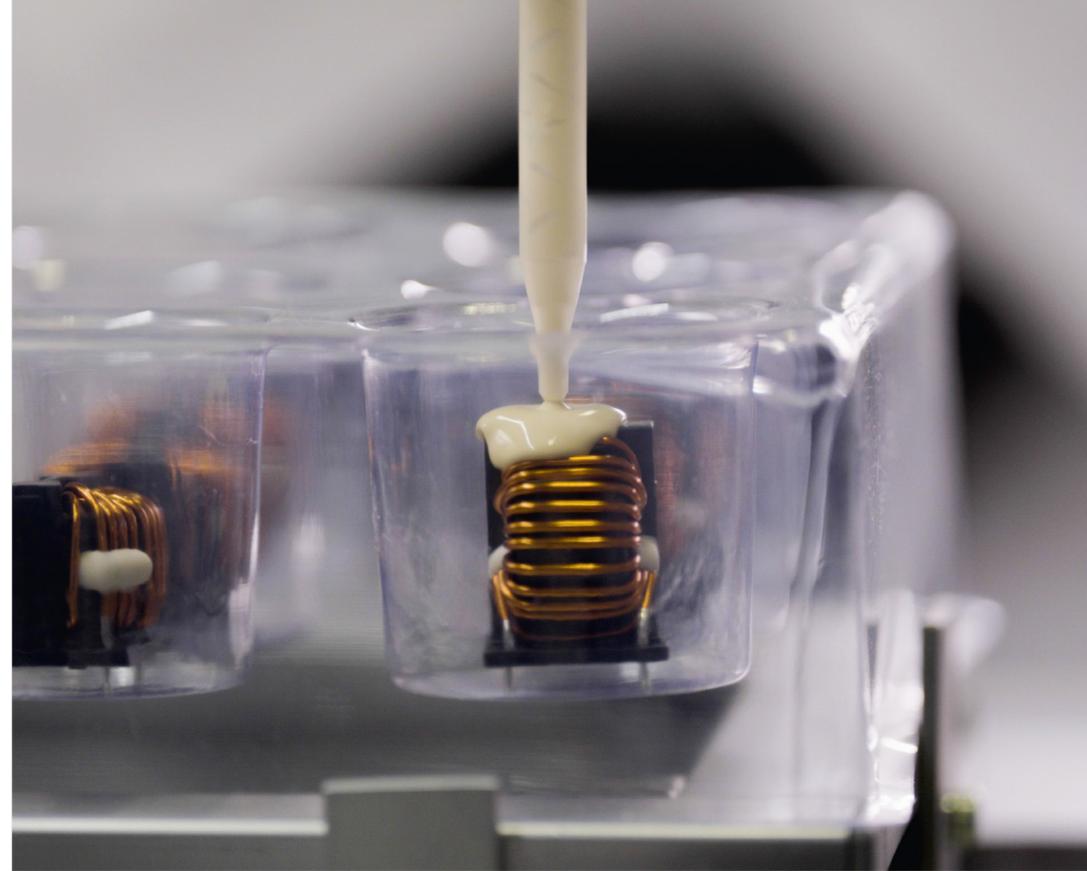
- Henkel's E-Mobility experts provided the customer's teams with close technical and on-sit engineering support, helping them scale up quickly and efficiently with the new solution.
- The solution enables the high-volume mass production of electronic components.
- Production in Europe, various package sizes available.

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## Customer Benefits

- Very fast flowing thermal silicone with easy processing and robust handling.
- Excellent heat transfer for power electronics applications.
- Very soft material to protect electronic components.
- Cures at room temperature and elevated temperatures for fast cure.
- Global manufacturing footprint outstanding technical support.



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