LOCTITE®

LOCTITE® TLB 9270APS

Two-component polyurethane-based thermally conductive adhesive for EV battery applications.

1 CUSTOMER CHALLENGES

- A major global EV battery manufacturer required a thermally conductive adhesive material with a high thermal conductivity for heat dissipation in a fast-charging battery system
- Reliability in harsh conditions was crucial to withstand humidity, thermal shocks, and prolonged high levels of heat
- Key requirements also included easy dispensing, long open time, and fast curing for large-scale manufacturing processability

2 HENKEL SOLUTION

- Henkel developed LOCTITE® TLB 9270APS, a polyurethane-based thermally conductive liquid adhesive with a thermal conductivity of 2 W/mK and a high bonding strength in various substrates
- The product offers an optimized filler and viscosity for a high dispense rate and robust mixing
- An optimized catalyst and resin combination enable a long open time and fast curing

3 MASS PRODUCTION PROCESS SET-UP

- Henkel's E-Mobility experts provided the customer's teams with close technical and on-site engineering support, helping them scale up quickly and efficiently with the new solution

CLICK HERE TO LEARN MORE

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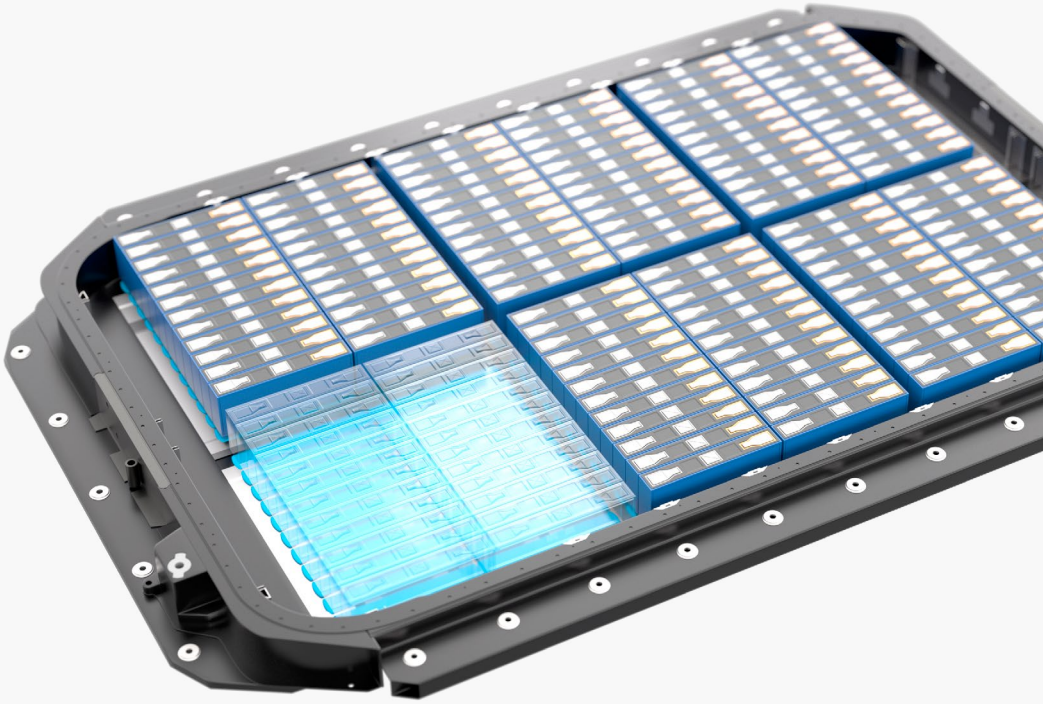

Customer Benefits

- High thermal conductivity of 2 W/mk
- Strong bonding across various substrates
- High dispense rate
- Fast curing

Henkel