

INS-001

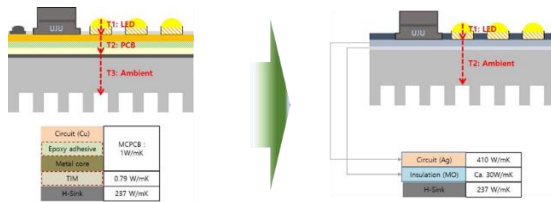
Screen printing, Insulator for light weight heater and lamps

1. Product description

INS-001 paste is an insulation paste with a high voltage drop property with lower temperature sintering characterization

2. Benefits

Low temperature sintering with $T_g=303^{\circ}\text{C}$.
 Low sintering temperature can be use Al 1000, 5000, and 6000 series as substrates.
 Al substate can produce light weight products such as heaters, lights in automobile, and BLU in display.



3. Processing

INS-001 paste is optimized for screen printing process using poly 100~200 mesh.

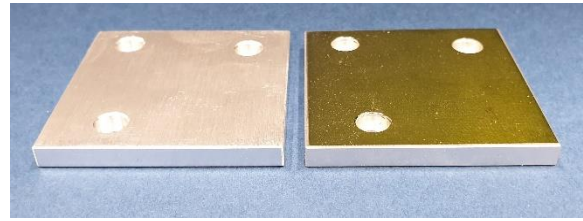
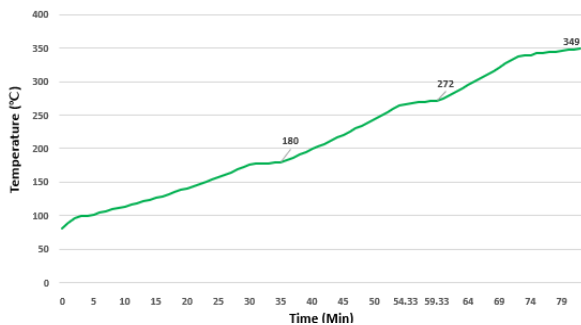
4. Cleaner

Alcohols, Ketones

5. Curing Condition

Precuring at 120°C for 10min.

Sintering condition



6. Storage and shelf life

The paste must be well sealed tightly and stored in a refrigerator of 0 to 10°C . Unopened paste is valid for three months from the manufacturing date. Exhaust used paste as soon as possible, but mixing used and new products is strictly prohibited.

7. Safety and handling

Refer to MSDS for safety and handling information. Leave pastes removed from refrigerator at room temperature for 2 to 3 hours before use. Please exhaust of open products within 24 hours.

8. Properties

| Items | Value |
|---------------------|----------------|
| Viscosity* | 110k ~130k cPs |
| Thixotropic index** | 4.0~6.0 |
| Solid contents | 75.0~80.0 wt.% |
| Heat conductivity | >20 W/mK |
| Adhesion | 100/100 |

* Brookfield HBT, 20rpm, #14 spindle @ 22°C

** Brookfield HBT, 2/20rpm, #14 spindle @ 22°C

9. Contact

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