

# nano-join

## NJ-Dispense



New Sinter pastes designed for applications like lead-frame die-attach:

- Optimized chemical composition with no solvents added
- Ensures optimal wetting and bonding
- Pressureless sintering material with 6 months shelf and pot-life
- Sintering temperatures 220°C to 250°C, in Air, N<sub>2</sub> and Ar

Properties:

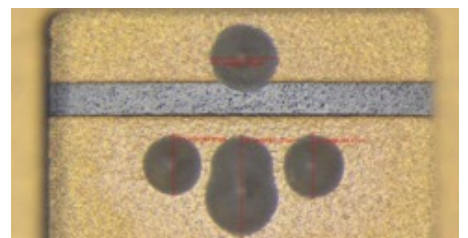
- High reproducibility
- Shear strength: up to 80 MPa
- Heat conduction: >300 W/mK
- Electric Resistance: 3μΩ\*cm

Technical Data:

- Typical viscosity of 17Pa\*s; 5 rpm
- Typical silver content of ~92%
- Nontoxic and ROHS compliant

Processing data:

- Needle diameter: 0.33mm
- Writing speed: 5mm/s;
- Pressure: 1 – 2.5 bar
- Placement should result in a BLT after sintering of 25-30μm
- Profile: RT – 5K/min to 90°C – 10min holding time – 5K/min to 250°C / 30-45min holding time\* – moderate cool down
- \*Holding time depends on thermal mass of the modules to be sintered
- \*Holding temperature may be reduced down to 220°C resulting in longer holding times



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