

Technical Data Sheet



Product Type: mAgic Ag Sinter Paste
Product Name: mAgic DA295

Description

mAgic sinter paste DA295 is designed for die attach and to sinter without pressure on application requiring excellent thermal conductivity. The material is lead-free and does not contain halogens. It consists of microscale Ag powder.

Key Benefits

- Non-pressure sintering process at temperature of 200°C
- Typical thermal conductivity of 100 W/mK and above
- Lead-free and zero halogen formulation

Halogen Content

Zero Halogen

Tolerance: Halogen < 50ppm; measured according to BS EN 14582

Product Code

Paste	Alloy	Metal Content	Application	Particle Size	Sinter Temperature	Compatible Surfaces	Sintering Atmosphere
DA295	Silver	82%	Dispensing	≤ 25µm	≥ 200°C	Ag or Au	Air or N ₂

Processing

Dispensing to be done using dot dispensing or needle writing system. Recommended inner diameter of dispensing needle for dot dispensing > 0.4mm. Recommended die size can be sintered without pressure at 200°C or above using the recommended sintering profile. See detailed information on application information sheet. Process parameters need to be adjusted depending on specific application requirements.

Cleaning Instructions

No cleaning is required as material does not leave undesirable residues after processing.

Storage

- Storage conditions in the refrigerator at 2 – 10°C
- Store the syringes with tip pointing downwards
- Avoid exposure to sunlight and high humidity > 65% R.H
- Shelf life: 6 months max after manufacture

Paste Preparation

- Remove material from fridge: Thaw for > 2 hours at room temperature (25°C)
- Do not open syringe while material is cold to prevent condensation
- Do not use accelerated defrost procedure

Heraeus Electronics
 Heraeus Deutschland GmbH & Co. KG
 Heraeusstraße 12 – 14
 63450 Hanau, Germany
www.heraeus-electronics.com

Americas
 Phone +1 610 825 6050
electronics.americas@heraeus.com

China
 Phone +86 21 3357 5457
electronics.china@heraeus.com

Asia Pacific
 Phone +65 6571 7677
electronics.apac@heraeus.com

Europe, Middle East and Africa
 Phone +49 6181 35 3069, +49 6181 35 3627
electronics.emea@heraeus.com