

## Technical Data Sheet



### ASSEMBLY MATERIALS

**Product Type:** mAgic Ag Sinter Paste

**Product Name:** ASP 295-79P2

#### Description

mAgic Sinter Paste ASP 295-79P2 is designed for Die Attach on lead frame application requiring excellent thermal conductivity. The material is lead free and does not contain halogens. It consists of micro scaled Ag powder.

#### Key Benefits

- No pressure sintering process at temperature of 230 °C
- Typical thermal conductivity of 100 W/mK and above
- Pb and halogen free formulation

#### Applications

- Dispensing

#### Product Code

| Product Name   | Compatible Surfaces | Sintering Atmosphere                                |
|----------------|---------------------|-----------------------------------------------------|
| ASP 295 – 79P2 | Ag                  | Air / N <sub>2</sub> [Min. O <sub>2</sub> > 50 ppm] |

#### Processing

Dispensing to be done using dot dispensing or needle writing system. Recommended inner diameter of dispensing needle for dot dispensing  $\geq 0.33$  mm, for needle writing  $\geq 0.4$  mm. Dies  $\leq 25$  mm<sup>2</sup> can be sintered without process pressure using the recommended sintering profile. See detailed information on application information sheet. Process parameters need to be adjusted depending on specific application requirements.

#### Cleaning

The material does not leave undesirable residues after processing. Therefore cleaning is usually not necessary.

#### Storage

- Store the sinter paste tightly-sealed and avoid exposure to sunlight and high humidity > 65 % R.H
- Max expiration date: please refer to the expiry date on the label of the packaged product
- Storage conditions in the refrigerator at 2 – 10 °C
- Store syringes with tip pointing downwards

#### Paste Preparation

- Remove material from fridge: Before opening the package leave it at least 2 hours at room temperature so that paste warms up
- Do not open syringe while material is cold to prevent condensation
- Do not use accelerated defrost procedure

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