

Micromax™ 7713A

Microcircuit and Component Materials

Silver Feed-Through

Micromax™ 7713A is a low temperature, air firing silver composition. Interconnection to Micromax™ 7713A can be achieved by soldering or with conductive adhesive. Micromax™ 7713A may be use for various touch screen applications.

Product benefits

- Low firing temperature
- High adhesion
- Good adhesion on Indium Tin Oxide (ITO) coated glass

Product information

Solvent or thinner

Micromax™ 8250

Rheological properties

Viscosity

77 - 91^[1] Pa.s

[1]: Brookfield HBT, #4, 10 rpm

Application technique

Mask mesh

200 - 325

Drying time

10 - 15 min

Drying temperature

100 - 150 °C

Recommended film thickness, fired

15 - 20 µm

Electrical properties

Surface resistivity

3^[2] mOhm per square

[2]: at 25µm thickness depending on firing conditions

Storage and stability

Shelf life

6^[3] months

[3]: in unopened containers, from date of shipment, at temperature <25° C

Additional information

How to use

Processing

- Substrates
 - Soda line glass, ITO coated glass
- Screen types

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- 200-325 mesh
- **Thinning**
 - Paste should not need adjusting prior to use (stirring recommended). Micromax™ 8250 may be added, with thorough blending, to replace solvent losses or to make slight adjustments in screen printing properties.
- **Drying**
 - Allow leveling
 - Dry 10-15 minutes at 100-150°C
- **Firing**
 - The firing/co-firing profile should have two flat regions (plateaus). The first is burnout at approximately 325°C for 10 minutes; the second is firing/co-firing at approximately 500-540°C for 2-10 minutes.
 - Lower air flow at the peak firing temperature is recommended.

Properties

- Information in this datasheet shows anticipated typical physical properties for Micromax™ 7713A based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

Storage and shelf life

Containers should be stored, tightly sealed, in a clean, stable environment at room temperature (<25°C). Shelf life of material in unopened containers is six months from date of shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

Safety and handling

For safety and handling information pertaining to this product, read Safety Data Sheet (SDS).

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