

Micromax™ 7723

Microcircuit and Component Materials

Silver Conductor

Micromax™ 7723 is a low temperature lead free*, air firing silver composition. Interconnection to Micromax™ 7723 can be achieved by soldering, conductive adhesive or other methods. Micromax™ 7723 may be used for various touch screen applications.

Product benefits

- Low firing temperature
- High adhesion
- Good adhesion on Indium Tin Oxide (ITO) coated glass
- Cadmium, Lead, Nickel and Phthalate free*

*Cadmium, Lead, Nickel and Phthalate 'free' as used herein means that cadmium, lead, nickel, and phthalate are not intentional ingredients in and are not intentionally added to the referenced product. Trace amounts however may be present.

Product information

Solvent or thinner	Micromax™ 8250
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Rheological properties

Viscosity	85 - 110 ^[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	

Storage and stability

Shelf life	6 ^[3] months
[3]: in unopened containers, from date of shipment, at temperature <25° C	

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Additional information

How to use

Processing

- **Substrates**
 - Soda lime glass, ITO coated glass, alumina and others
- **Screen types**
 - 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.

Properties

- Information in this datasheet shows anticipated typical physical properties for Micromax™ 7723 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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Printed: 2023-03-30

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Revised: 2023-03-09 Source: Celanese Materials Database

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