

Micromax™ 7096

Microcircuit and Component Materials

Silver Conductor

Micromax™ 7096 is a low temperature air firing silver composition, with high adhesion to PZT quartz and glass substrates. Micromax™ 7096 is a high solids content version of Micromax™ 7095 and is intended to be thinned for spray, dip, or brush applications. Interconnecting to Micromax™ 7096 may be achieved by soldering.

Product benefits

- Low firing temperature
- High adhesion
- Solderable

Product information

Solvent or thinner	Micromax™ 4553
Solid content	84 - 86 %

Rheological properties

Viscosity	80 - 120 ^[1] Pa.s
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[1]: Brookfield RVT, 10 rpm, 25 °C

Application technique

Drying time	15 min
Drying temperature	150 °C
Leveling time	5 - 10 min

Storage and stability

Shelf life	6 ^[2] months
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[2]: in unopened containers, from date of shipment, at temperature <25 °C

Additional information

How to use

Processing

- **Application**
 - Spray, dip or brush after thinning
- **Substrates**
 - PZT, quartz, glass
- **Thinning**
 - Paste is intended to be thinned before application. The thinner selection should be based on the desired drying rate, but fast-drying solvents such as xylene, toluene or butyl acetate can be

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employed. Alternately, for slower drying rates, or for minor adjustment to the composition, Micromax™ 4553 may be added.

- **Drying**
 - Allow leveling and partial drying 5-10 minutes at room temperature
 - Dry 15 minutes at 150°C
- **Firing**
 - Fire 540-590°C peak, time at peak and the profile needs to be optimized based on the composition of the substrate.

Properties

- Information in this datasheet shows anticipated typical physical properties for Micromax™ 7096 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).