

# Micromax<sup>™</sup> 7713

## **Electronic Inks and Pastes**

## Silver Feed-Through

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

## **Product benefits**

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

### Allgemeine Informationen

Lösungsmittel	Micromax <sup>™</sup> 8250	
Silber Inhalt	70	%
Rheologische Eigenschaften		
Viskosität	67 - 91 <sup>[1]</sup>	Pa.s
[1]: Brookfield HBT, 10 rpm, 25°C		
Application technique		
Mask mesh	200 - 325	
Drying time	10 - 15	min
Drying temperature	100 - 150	
Empfohlene Filmdicke, fired	15 - 20	μm
Elektrische Eigenschaften		
Spezifischer Oberflächenwiderstand	3 <sup>[2]</sup>	mOhm per
		square
[2]: at 25µm thickness depending on firing conc	litions	
Storage and stability		
Haltbarkeit	6 <sup>[3]</sup>	Monate
[3]: in unopened containers, from date of shipm		
Verarbeitung		
U U U U U U U U U U U U U U U U U U U		
How to use	Processing	
	<ul> <li>Substrates</li> </ul>	
	<ul> <li>Soda line glass, ITO coated glass</li> </ul>	
	<ul> <li>Screen types</li> </ul>	
	<ul> <li>200-325 mesh</li> </ul>	
	Thinning	
	<ul> <li>Paste should not n</li> </ul>	eed adjusting pr
	recommended) M	icromavTM 8250

Paste should not need adjusting prior to use (stirring recommended). Micromax<sup>™</sup> 8250 may be added, with thorough

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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<sup>™</sup> 7713 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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#### Revision: 2024-09-06 Source: Celanese Materials Database

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