

Micromax™ 5775

Electronic Inks & Pastes

PRODUCT DESCRIPTION

Gold Conductor

Micromax™ 5775 is a cadmium free, screen printable, composition. It is used as a gold and aluminum wire-bondable conductor for use over 96% alumina and multilayer dielectrics. Outstanding aged adhesion of aluminum wire bonds distinguishes it from other aluminum wire bondable products.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

PRODUCT INFORMATION

General Properties	Value Unit
Application	High reliability Au conductor
Solvent or thinner	Micromax™ 8672

TECHNICAL DATA

Rheological Properties	Value Unit
Viscosity ¹	240 to 400 Pa.s

Application Technique	Value Unit
Mask mesh	325
Mask emulsion	12 µm
Drying time	15 min
Drying temperature	150 °C
Theoretical coverage	50 to 80 cm ² /g
Recommended film thickness	7 to 10 µm
Print resolution ²	100 µm

Application Technique	Value	Unit
Print resolution ³	100	µm
Leveling time	10 to 15	min
Electrical Properties	Value	Unit
Resistivity ⁴	≤6	mOhm per square
Storage and Stability	Value	Unit
Shelf life ⁵	6	months

¹Brookfield 2xHAT, UC&SP; SC4-14/6R 10 rpm, 25°C

²Using special screens designed for fine line printing.

³Using special screens designed for fine line printing.

⁴at 10µm fired thickness

⁵in unopened containers, from date of shipment, stable environment at room temperature between 5°C - 30°C

PROCESSING GUIDELINES

Substrates

Properties are based on tests using 96% alumina substrates. Substrates of other compositions and from various manufacturers may result in variations in performance properties.

Printing

A 325-mesh stainless steel screen with a 12µm (0.5mil) emulsion thickness is recommended. Printing speeds up to 15cm/s (6in/s) can be achieved.

Drying

Allow the wet print to level for 10-15 minutes at room temperature. Dry for 15 minutes at 150°C.

Firing

Dried prints should be fired in a belt furnace. Use a 60 minute cycle with a peak temperature of 850°C for 10 minutes. No significant changes in performance characteristics were seen after multiple refirings at 850°C.

Properties

All values reported here are results of experiments in our laboratories intended to illustrate product performance potential with a given experimental design. They are not intended to represent the product's specifications.

Storage and shelf life

Containers should be stored, tightly sealed, in a clean, stable environment at room temperature between 5°C - 30°C. Shelf life of material in unopened containers is 6 months from date of

shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

Storage conditions on the product data sheets are intended to represent long-term material storage recommendations and not a shipping or temperature-at-receipt requirement.

Transportation: Under normal shipping conditions, without temperature control, Micromax™ products are not expected to exhibit a change in quality or fitness for use. Should extraordinary events result in extended transportation periods, Micromax™ recommends customers confirm products remain suitable for the intended application.

Safety and handling

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

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use.

Safety Data Sheets are available.

WASTE TREATMENT

Prior to using any recommendations or suggestions for waste treatment, the user is required to know the appropriate local/state/federal regulations for on-site or off-site treatment which may require permits. If there is any conflict regarding our recommendations, local/state/federal regulations take precedence.

CONTACT INFORMATION

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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