

Micromax™ 5402C

Electronic Inks & Pastes

PRODUCT DESCRIPTION

Platable C2 Edge Termination for Chip Resistor Applications

Especially developed for chip resistor applications, Micromax™ 5402C is a platable silver C2 edge termination that meets the needs for low cost and high performance.

Product benefits

- Low temperature firing
- Excellent dipping performance
- Excellent cosmetics
- Excellent post-plating adhesion
- High acid resistance
- Cadmium free*

*Cadmium 'free' as used herein means that this is not intentionally added to the referenced product. Trace amounts however may be present.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

PRODUCT INFORMATION

General Properties	Value Unit
Application	Resistor termination
Solvent or thinner	Micromax™ 9245

TECHNICAL DATA

Rheological Properties	Value Unit
Viscosity ¹	45 to 55 Pa.s

Application Technique	Value Unit
Drying time	10 min
Drying temperature	150 °C

Application Technique	Value	Unit
Leveling time	5 to 10	min

Storage and Stability	Value	Unit
Shelf life ²	6	months

¹Brookfield RVT, UC&S₁, 10 rpm

²in unopened containers, from date of shipment, stable environment at room temperature between 5°C - 30°C

PROCESSING GUIDELINES

Substrates

Reported properties are based on tests with 96% alumina substrates. Substrates of other compositions may yield variations in performance properties.

Dipping

Paste rheology of Micromax™ 5420C has been optimized for dipping of the chip resistor edges after the alumina substrate has been broken into strip form. While thinning is not normally recommended, Micromax™ 9245 thinner may be used for minor adjustments.

Drying

After dipping, parts should be allowed to level at room temperature for 5-10 minutes and then dried at 150°C for 10 minutes.

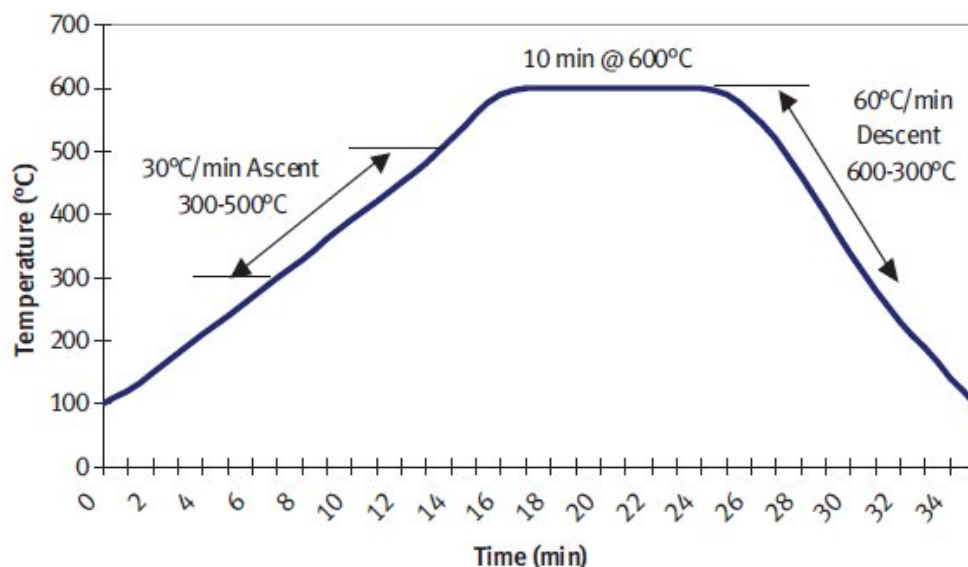
Firing

Fire to peak temperature of 600-620°C for 10 minutes at peak with a total firing cycle of 30 minutes. Allow adequate time (10 minutes) during heating cycle to avoid entrapment of organics in the fired film.

Properties

Information in this datasheet shows anticipated typical physical properties for Micromax™ 5402C based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

Typical 600°C 10 Minute Profile



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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