

Micromax™ 5426

Electronic Inks & Pastes

PRODUCT DESCRIPTION

Silver/Palladium

Micromax™ 5426 is a plateable silver/palladium termination specifically developed for chip resistor application requiring low cost and high performance.

Product benefits

- Excellent post-plating adhesion
- High acid resistance
- Thinner prints
- Fast firing - 850°C/30 min profile
- Cadmium-free*
- Co-fireable with Micromax™ 00X0A chip resistors
- Dense fired film

*Lead and cadmium 'free' as used herein means that lead and cadmium are 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™ 8250(T)

TECHNICAL DATA

Rheological Properties	Value Unit
Viscosity ¹	200 to 280 Pa.s

Application Technique	Value Unit
Mask mesh	250

Application Technique	Value	Unit
Mask emulsion	10	µm
Drying time	10	min
Drying temperature	150	°C
Recommended film thickness	18 to 22	µm
Recommended film thickness	8 to 12	µm
Leveling time	5 to 10	min
Mechanical Properties	Value	Unit
Adhesion ²	10 to 18	N
Storage and Stability	Value	Unit
Shelf life ³	6	months

¹Brookfield HBT, UC&SP, 10 rpm, 25°C ± 1°C

²62Sn/36Pb/2Ag, 220°C/10 sec Dip 2x2 mm pad, 0.8 mm wire

³in 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.

Printing

Properties are based on Micromax™ 5426 printed to 20±2µm dried thickness using 250-mesh stainless steel screen with an emulsion thickness of approximately 10µm.

Clean-up solvent

While traditional cleaners work with Micromax™ 5426, Arcosolv PNP (1-propoxy, 2-propanol), a non-CFC alternative, is recommended.

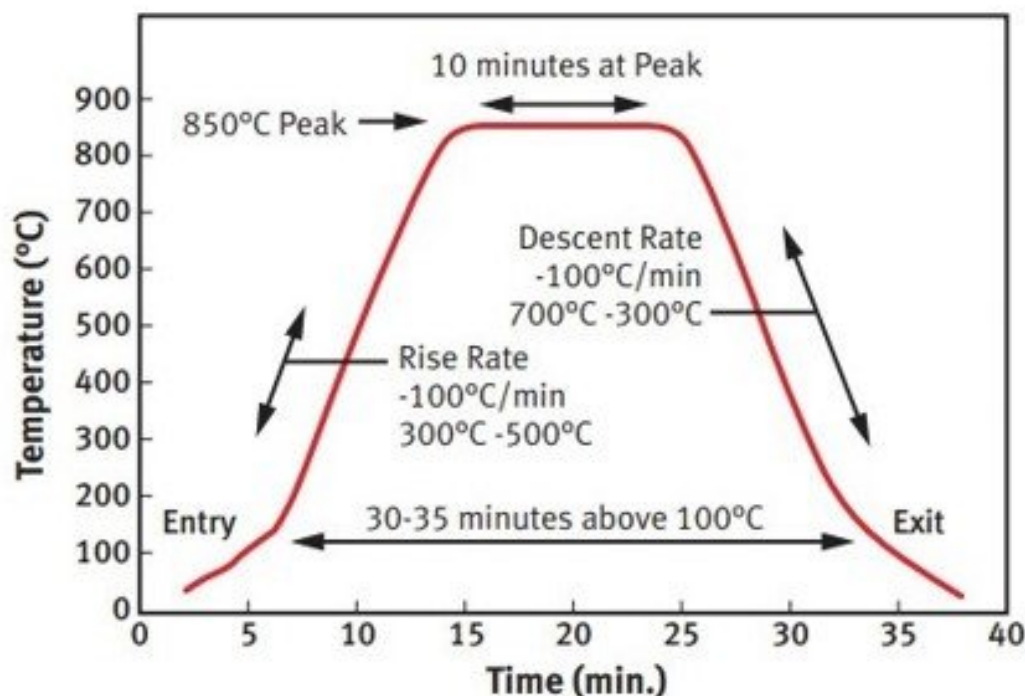
Drying

Prints should be allowed to level at room temperature for 5 to 10 minutes and then dried for 10 minutes at 150°C.

Firing

Properties are based on a 30-minute firing cycle with 10 minutes at a peak of 850°C.

Typical 850°C 30 Minute Firing Profile



Properties

Information in this datasheet shows anticipated typical physical properties for Micromax™ 5426 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 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

www.macdermidalpha.com

North America	Europe	Asia
470 Research Drive Wilmington, DE, USA 855.622.7813	Bristol & Bath Science Park Dirac Crescent, Emersons Green, Bristol, BS16 7FR, United Kingdom 44.117.4769148	No. 45 Hsing-Point Road Taoyuan City, 330457 Taiwan 886.3.3773588

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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