

Micromax™ 5876

Electronic Inks & Pastes

PRODUCT DESCRIPTION

Screen-Printable Silver/Silver Chloride Paste for Screen Printing

Micromax™ 5876 is solvent-based silver/silver chloride screen-printable paste. It can be printed on polyester films and is best used as a cathode for electrochemical and biochemical sensors.

Product benefits

- Fast drying
- Low electrode polarization
- High solids for thick prints

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

PRODUCT INFORMATION

General Properties	Value	Unit
Application	Membrane switch conductor	
Solvent or thinner	Micromax™ 3610	
Density	2.59	g/cm ³
Solid content ¹	81.5 to 85.5	%
Ag:AgCl ratio	32 / 68	

TECHNICAL DATA

Rheological Properties	Value	Unit
Viscosity ²	25 to 35	Pa.s

Application Technique	Value	Unit
Drying time ³	3 to 5	min
Drying temperature ⁴	120	°C

Mechanical Properties	Value	Unit
Adhesion ⁵	5B	class

Storage and Stability	Value	Unit
Shelf life ⁶	6	months

¹150°C

²Brookfield 0.5RVT, UC&S, SC4-14/6R, 10 rpm, 25°C

³box oven

⁴box oven

⁵ASTM D3359-78

⁶in unopened containers, from date of shipment, stable environment at room temperature between 5°C - 30°C

PROCESSING GUIDELINES

Compatibility

Only print-treated polyester film substrate should be used. For best results, the paste can also be printed over a silver (Micromax™ 5000 and Micromax™ 5025) underlay. Care should also be taken to avoid contacting the silver/silver chloride paste with reactive metals, such as aluminum, brass and steel.

Printing

The paste should be mixed thoroughly before use with a plastic spatula. If severe settling is found after long storage, mix and then jar roll sample overnight before use.

Thinning

Micromax™ 3610 should be used sparingly to make viscosity adjustments or to compensate for solvent loss due to evaporation.

Clean-up solvent

Ethylene glycol diacetate or Dipropylene glycol methyl ether.

Drying

Box oven: 120°C for 3-5 minutes

Reel-to-reel: 140°C for 1-1.5 minutes

Typical Physical Properties

Test	Properties
Coat Weigh* (mg/cm ²) [160-mesh screen]	8 - 11
Silver Chloride Depletion* (Cathode)	> 60 min

* Silver chloride depletion: Minutes to reach 1 volt (cell voltage) at 0.5 mA/cm² with 8.5 mg/cm² coat weight.

Information in this datasheet shows anticipated typical physical properties for Micromax™ 5876 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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