

Micromax™ 7380S

Electronic Inks and Pastes

Silver Conductor

Micromax™ 7380S silver conductor is designed for use with Ca/Sm/Al ceramic bodies and others. It's used on high frequency dielectric waveguide filters and other similar components. It is formulated to be applied to ceramic components by spraying.

Product benefits

- Uniform coating with good coverage
- High Q or low insertion loss
- Dense fired film and low resistivity
- Excellent solderability
- Excellent adhesion
- High reliability
- Wider process window and high yield
- Lead, Cadmium, Nickel and Phthalate free*

* Lead, Cadmium, Nickel and Phthalate 'free' as used herein means that lead, cadmium, nickel and phthalate are not intentional ingredients in and are not intentionally added to the referenced product. Trace amount however may be present.

Product information

Solvent or thinner	Xylene
Solid content	67.5 - 69.5 ^[1] %
[1]: 750 °C	

Rheological properties

Viscosity	≤1 ^[2] Pa.s
[2]: Brookfield LVT, UC&S, 10 rpm	

Application technique

Drying time	10 - 15 min
Drying temperature	150 °C

Electrical properties

Surface resistivity	≤1.7 ^[3] mOhm per square
[3]: at 12μm fired thickness	

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Storage and stability

Shelf life

6^[4] months

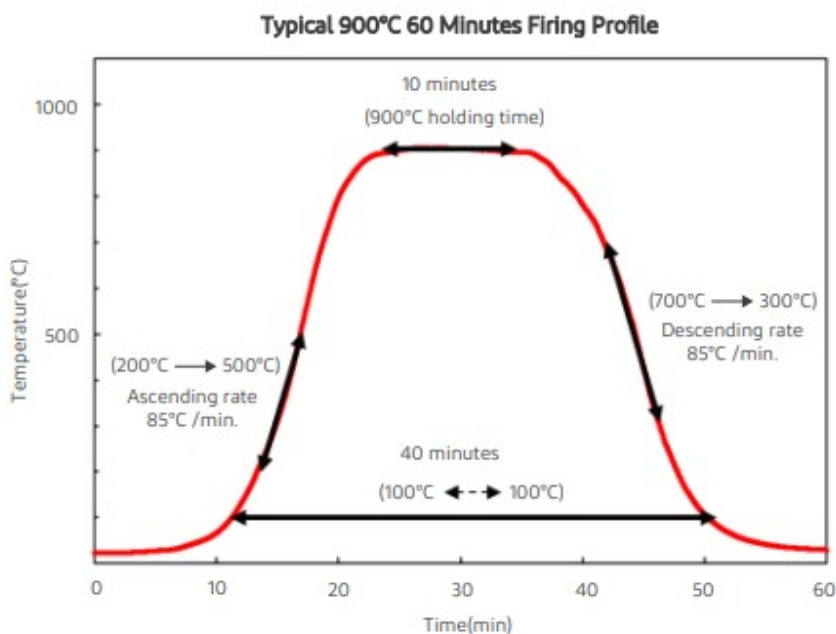
[4]: in unopened containers, from date of shipment, at temperature <25°C

Additional information

How to use

Processing

- **Spraying**
 - Manual or automatic spray.
- **Drying**
 - Wet thick films should be dried for 10-15 minutes at 150°C.
- **Firing**
 - Dried thick films should be fired in a belt furnace. A total cycle time of approximately 1 hour with approximately 10 minutes at peak temperature of 900°C is recommended.



Properties

- Information in this datasheet shows anticipated typical physical properties for Micromax™ 7380S based on specific controlled experiments in our labs and are not intended to represent the product specifications, details

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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).

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products.

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