

MicromaxTM 7988R

Electronic Inks and Pastes

Ag/Pd Conductor

MicromaxTM 7988R is a silver/palladium conductor for filling or plugging through-holes in 96% alumina sabatrates. It creates a low resistance front-to-back interconnection with reduced capacitance effects associated with coated through-holes in high frequency circuits. The hole-fill offers the advantage of surface planarity for increased circuit density.

Product benefits

- Solid plugs with a slight depression to improve screen registration on following prints.
- No shrinkage away from sidewalls
- · Lead, Cadmium, Nickel and Phthalate free*

Product information

Solvent or thinner MicromaxTM 9180R Solid content 91.5 - 93.5 %

Rheological properties

Viscosity 3000 - 7000^[1] Pa.s

[1]: Brookfield HBT, UC&S, 1 rpm

Application technique

Drying time 15 - 20 min
Drying temperature 150 °C
Leveling time 5 - 10 min

Storage and stability

Shelf life 6^[2] months

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

Additional information

How to use Processing

Substrates

- Properties are based on test using 96% alumina substrates.
- Substrates of other compositions and from various manufacturers may result in variations in performance properties.
- Printing
 - Micromax[™] 7988R prints easily with a stencil. Printing with a

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^{*} 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.



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screen is not recommended due to the high viscosity and solids of pastes.

Drying

 Allow prints to level for 5-10 minutes at room temperature. Then dry for 15-20 minutes at 150°C in a well-ventilated oven or belt dryer.

Firing

 Fire in a well ventilated conveyor fornace, in air with either a 30 or 60 minute cycle and a peak temperature of 850°C.

Properties

Typical Physical Properties

| Test | Properties |
|----------------------|------------|
| Metallurgy (Ag : Pd) | 5:1 |

Information in this datasheet shows anticipated typical physical properties for MicromaxTM 7988R 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 (<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).

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