

Dielectrics

IP7098

Nitrogen Overglaze

Description:

IP7098 is a screen printable vitreous overglaze developed as a protective encapsulant for resistors and copper. It fires to a dense, pinhole-free green color for optimum laser trimming. This material is compatible with Heraeus' R8500 resistor system, C7257 Copper Conductor and IP9119 crossover dielectric.

● **Key Benefits:**

- Laser trimmable
- Copper and resistor compatible
- Green color
- Fires in N₂ to a smooth dense surface
- Has high moisture resistance
- Cadmium free

● **Typical Properties:**

Coverage:

180 cm²/g.

Viscosity:

70-110 Kcps;
Brookfield HBT, SC4-14 spindle and
6R utility cup @ 10rpm, 25 °C.

Solids:

70.0 ± 1%

● **Recommended Processing Guidelines:**

Printing:

280 mesh stainless steel screen
0.5 mil emulsion
1.1 mil wire

Drying:

Dry at 150°C for 10 minutes

Firing:

See attached profiles.
Oxygen content should be 3-10 ppm.

Thickness:

Wet: 26-30 microns.
Fired: 12-15 microns.

Thinner:

RV-507 (Texanol®)

Warranty:

Material guaranteed to meet specifications
for 6 months from date of shipment.

Storage:

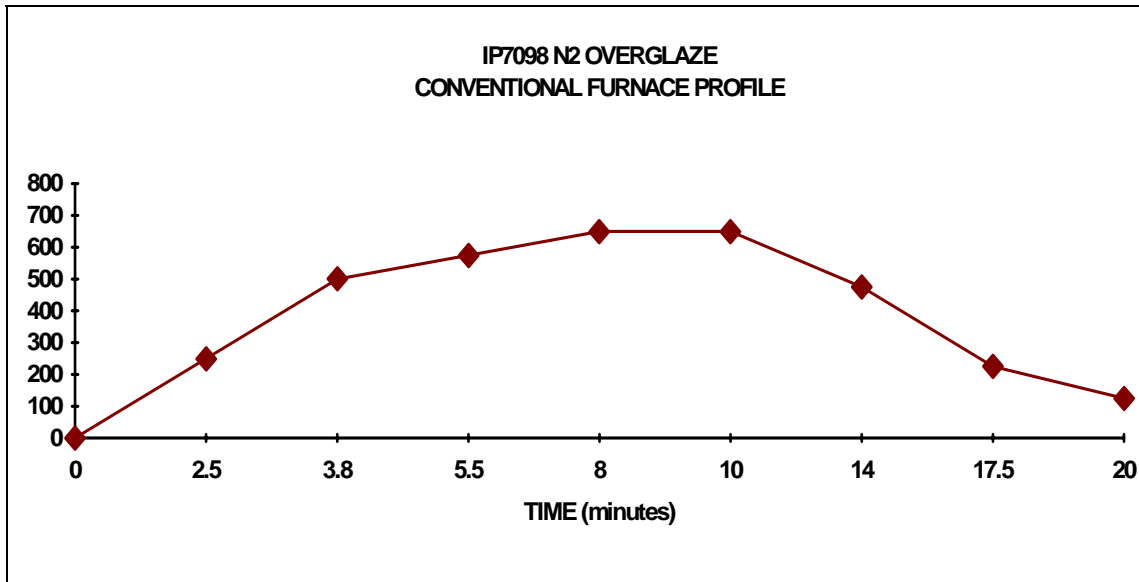
Store in a dry location at 5°C-25°C.
DO NOT REFRIGERATE.
Allow paste to come to room temperature
prior to opening.
Spatulate well before using.

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The descriptions and engineering data shown here have been compiled by Heraeus using commonly-accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for a particular application.

Americas
 Heraeus Incorporated
 Thick Film Materials Division
 24 Union Hill Road
 West Conshohocken, PA 19428
 USA
 Phone: +1 (610) 825-6050
 E-Mail: techservice.hcd@heraeus.com
 Internet: www.thickfilm.net

Europe
 W.C. Heraeus GmbH
 Thick Film Materials Division
 Heraeusstr. 12-14
 63450 Hanau
 Germany
 Phone: +49 (6181) 35-5466
 E-mail: th-info@heraeus.com
 Internet: www.heraeus-th.com

Asia
 Heraeus Materials Technology
 Shanghai Ltd.
 No. 1 Guang Zhong Road
 Zhuanqiao Town, Minhang District
 Shanghai 201108
 People's Republic of China
 Phone: + 86 (21) 6442-6838
 E-Mail: th.hmts@heraeus.com
 Internet: www.heraeus-th.com