

Resinates

RP Au 211008 - 22%



Gold Resinate Paste / DPIS*

* Development Product Information Sheet

Description

RP Au 211008-22% is a liquid precious metal product for use on quartz glass fiber. It contains gold in form of dissolved organo-metallic compounds.

After firing a highly reflective gold layer is obtained. Due to simultaneous sintering of non-precious metal oxides it offers high adhesion between gold and quartz glass.

Key Benefits

- Suitable for drawing coating of optical fibers used in sensors as light reflective and protective layers on quartz glass fiber
- Free of lead, cadmium and nickel
- Free of phthalate
- RoHS³ and REACH⁴ compliant

Processing

1. Do not spatulate or shake prior to processing.

Solution can build some deposit which will not dissolve, especially after a long period storage - this can cause defects after firing.

When stored in a refrigerator allow the solution to come to room temperature prior to opening, to avoid condensation.

2. Applicable by brushing and gravity coating. For brushing application it is necessary to adjust viscosity.
3. Level at room temperature for 5 minutes
4. Dry at 90 °C for 5 – 10 minutes
5. Fire at 800 – 820 °C (peak) for 2 – 10 minutes and with a total firing cycle time of 20 – 60 minutes.

Thinner
 V 35
 V 39
 Toluene

Typical Properties (Solution)

Form:	Liquid solution
Viscosity:	17 – 21 Pas (20 °C, D = 50 sec ⁻¹)
Solid Content:	22.7 % ± 1.0 %
Coverage:	Approx. 400 cm ² / g (FFT at 0.3 µm)
Shelf Life:	6 months from date of shipment with correct storage (in a dry, cool (5 – 25 °C) and dark place with container tightly shut)

Typical Properties (Fired)¹

Fired Film Thickness²: < 0.3 µm
(FFT)

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- 1 Typical properties based on laboratory test methods. For optimum results all materials should be fired in a profiled furnace supplied with dried, hydrocarbon and other contaminant free air (PP-1).
- 2 Measured on quartz glass
- 3 RoHS compliant according to the latest ** Directives (European Union) of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions related to Pb)
- 4 REACH compliant according to the latest ** Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

** See the data sheet issue date (DD/MM/YY) as reference of validity of latest edition which is available on request.

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