

## Resinates

### RP PD A2985 H



### Palladium Resinate Paste

#### Description

RP PD A2985 H is a thin film paste for use on alumina and glazed alumina. .

#### Key Benefits

- Free of lead, cadmium and nickel
- Free of phthalate
- RoHS<sup>3</sup> and REACH<sup>4</sup> compliant

#### Processing

1. Spatulate well prior to processing:

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

2. Print through a 300 – 350 mesh stainless steel screen with an emulsion thickness of 15 – 20 µm.
3. Let the print settle at room temperature for 10 minutes.
4. Dry at 90 °C for 15 minutes.  
Do not exceed peak of 130 °C.
5. Fire at 850 °C (peak) for 7 – 10 minutes and with a total firing cycle time of 40 – 60 minutes.

**Thinner**      Cyclohexane

#### Typical Properties (Paste)

Form:	paste
Viscosity:	1300 – 2200 mPas (25°C, D = 50 sec <sup>-1</sup> )
Solid Content:	15% ± 0.2 %
Printing Speed:	Up to at least 10 cm/s
Coverage: (325 mesh screen)	Approx. 400 cm <sup>2</sup> / g (FFT at 0.4 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)<sup>1</sup>

Fired Film Thickness <sup>2</sup> : (FFT)	0.1 – 0.5 µm
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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 alumina 96% after printing with a 325 mesh steel screen; thickness of screen and emulsion combined was c. 15 µm, and the resultant printed track was 500 µm wide.
  - 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.
  - 5 DFT: Dried Film Thickness; FFT: Fired Film Thickness
- \*\* 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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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.

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