

Technical Data Sheet

THICK FILM MATERIALS

Product Type: Conductors

Product Name: 451BA



Low Temperature Platinum Conductor

Description

451BA is a low firing fritted platinum conductor paste. 451BA exhibits excellent solderability on glass substrates.

Key Benefits

- Low firing temperature
- Excellent solderability
- REACH¹ and ROHS² compliant

Typical Properties

Solderability (After burnishing fired film)

Sn62/Pb36/Ag2 at 225 °C, RMA flux
 ≥ 95 % coverage

Viscosity

900 – 5,000 cps Brookfield RVT
 SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

Solids

60.0 ± 1.0 %

Recommended Processing Guidelines

Application

Brushing

Drying

150 °C for 10 minutes

Firing

600 – 650 °C peak temperature
 Dwell time of 10 minutes
 45 minute cycle time

Thinner:

RV-372

Warranty:

Material guaranteed to meet specifications for 3 months from date of shipment.

Storage:

Store in a dry location at 5 – 25 °C.

DO NOT REFRIGERATE.

Allow paste to come to room temperature prior to opening.
 Spatulate well before using, as settling may occur during storage.

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Legend:

1) 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.

2) 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)

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