

Technical Data Sheet

THICK FILM MATERIALS

Product Type: End Terminations

Product Name: ET1857



Pb Free Solderable End Termination

Description

ET1857 is a lead and cadmium free Ag/Pt termination paste designed for use on a variety of ceramic components. It provides good adhesion, solderability, and leach resistance.

Key Benefits

- Rheology allows for printing, dipping, brushing or roll coating
- REACH¹ and ROHS² compliant

Typical Properties

Resistivity

< 3.5 mΩ/□ at 14 μm fired film thickness

Adhesion

80 x 80 mil pad
Sn10/Pb88/Ag2 at 365 °C, RMA flux
Initial: > 4.0 lbs

Solderability

Sn62/Pb36/Ag2 at 225 °C, RMA flux
1x 3 second dip (> 95 % coverage)

Solder Leaching

Sn62/Pb36/Ag2 at 225 °C, RMA flux
10 second dips Line Lost
3 < 10 %

Viscosity

50 – 60 Kcps Brookfield RVT
SC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C

Solids

84.0 ± 1.0 %

Recommended Processing Guidelines

Printing

280 mesh stainless steel screen
0.5 mil emulsion

Drying

150 °C for 10 minutes

Firing

850 °C peak temperature
Dwell time of 10 minutes at peak

Thinner:

RV-372 (Terpineol)

Warranty:

TBD.

Storage:

Store in a dry location at 20 – 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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