

Technical Data Sheet

THICK FILM MATERIALS

Product Type: Component Metallization

Product Name: 10-074HF



Silver Conductor

Description

10-074HF is a silver bearing conductor paste designed to screen print solderable electrodes onto a variety of electrical ceramic component devices. The fired film forms a highly adherent bond to many types of substrates, including piezoelectric transducers (PZTs), NTC thermistors, alumina, steatite and porcelain. The metalized electrode is solderable for external lead attachments.

Key Benefits

- REACH¹ and ROHS² compliant
- Excellent adhesion
- Excellent solderability
- Compatible on piezoelectric transducers (PZTs), NTC thermistors, alumina, steatite and porcelain

Typical Properties

Viscosity

35 – 50 Kcps, Brookfield RVT, Spindle #7, at 20 rpm, 25 °C

Resistivity

< 3.0 mΩ/□ at 25 μm fired film thickness

Adhesion

Sn62/Pb36/Ag2 at 200 °C

100 x 100 mil pads

Initial: > 6 lbs

Solderability

Sn10/Pb88/Ag2 at 210 – 230 °C,

2 – 3 seconds dip

100 %

Recommended Processing Guidelines

Printing

100 – 250 mesh stainless steel screen

0.3 – 1.0 mil emulsion

Drying

100 – 150 °C for 10 – 15 minutes

Firing

725 – 850 °C peak temperature

Dwell time of 8 – 12 minutes at peak temperature

Cycle time of 45 – 60 minutes

Larger parts may require a longer firing profile

Thickness

Fired: 5 – 9 μm

Thinner

RV-252

Warranty

Material guaranteed to meet specifications for 6 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).

* 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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