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.

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**Key Benefits**

- REACH\(^1\) and ROHS\(^2\) compliant
- Excellent adhesion
- Excellent solderability
- Compatible on piezoelectric transducers (PZTs), NTC thermistors, alumina, steatite and porcelain

**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.
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.

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. This 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 particular applications.