Heraeus

Electronics

# PC10899

## Component Metallization

### Description

PC10899 is a low temperature firing silver 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 piezo-electric transducers (PZTs), NTC thermistors, alumina, steatite, and porcelain. The metalized electrode is readily solderable for external lead attachment.

### Key Features

- RoHS compliant* REACH compliant** Lower firing temperature (< 700°C) Screen printable Excellent solderability Designed for piezo-electric transducers (PZTs), NTC thermistors, alumina, steatite, and porcelain


| Typical Properties | |
|---|---|
| Viscosity | 80 – 100 kcps Brookfield HBT SC-14 spindle & 6R utility cup @ 10 rpm, 20°C |
| Resistivity | ≤ 4.0 milliohms per square @ 25 microns fired film thickness. |

| Recommended Processing Guide | |
|---|---|
| Printing Parameters | 60-250 mesh stainless steel screen<br>0.7 -1.0 mil emulsion<br>Allow parts to level at room temperature for 10 minutes before drying. |
| Drying Temperature | 100-150°C for 10-15 minutes |
| Process Temperature (TDS) | 650-700°C peak firing temperature<br>Dwell time of 8-12 minutes at peak<br>Total cycle time of 45-60 minutes.<br>Larger parts may require a longer firing profile. |
| Film Thickness | 9 - 15 microns |

# PC10899

## Component Metallization

| Recommended Processing Guide (continued) | |
|---|---|
| Recommended Thinner | Heraeus RV-100 |

Americas
Phone +1 610 825 6050
electronics.americas@heraeus.com

Asia Pacific
Phone +65 6571 7649
electronics.apac@heraeus.com

China
Phone +86 53 5815 9601
electronics.china@heraeus.com

Europe, Middle East and Africa
Phone +49 6181 35 4370
electronics.emea@heraeus.com

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 particular application. The Heraeus logo and Heraeus, figurative mark are trademarks or registered trademarks of Heraeus Holding GmbH or its affiliates. All rights reserved.

All changes are based on information displayed using the template data_sheet/HET/TFM/print_data_sheet.html.twig.
Version (last updated) 03 Nov 2025

# PC10899

## Component Metallization

### Warranty

Material guaranteed to meet specifications for 6 months from date of manufacturing with proper storage.

### 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.


| Americas | Asia Pacific | China | Europe, Middle East and Africa |
|---|---|---|---|
| Phone +1 610 825 6050 | Phone +65 6571 7649 | Phone +86 53 5815 9601 | Phone +49 6181 35 4370 |
| electronics.americas@heraeus.com | electronics.apac@heraeus.com | electronics.china@heraeus.com | electronics.emea@heraeus.com |


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 particular application. The Heraeus logo and Heraeus, figurative mark are trademarks or registered trademarks of Heraeus Holding GmbH or its affiliates. All rights reserved.

All changes are based on information displayed using the template data_sheet/HET/TFM/print_data_sheet.html.twig.
Version (last updated) 03 Nov 2025