

3610

Conductor

Description

3610 is a gold conductor paste designed for microcircuit applications requiring aluminum wire bonds. 3610 is comprised of a mixed bond frit system that offers excellent aged wire bond adhesion for aluminum and gold wires. 3610 fires to a dense, pin-hole free film.

Key Features

- Excellent Al and Au wire bondability Dense fired film



Typical Properties

Viscosity	190 – 220 kcps, Brookfield HBT, SC4-14 spindle & 6R utility cup @ 10 rpm, 25°C
Coverage	50-60 cm 2/gm (Calculated from 50 micron wet film)
Resistivity	≤ 4.0 milliohms per square at 25 microns fired film thickness
Solderability	Complete wetting with Au-Sn solder paste at 300°C

Recommended Processing Guide

Printing Parameters	325 stainless steel mesh screens 0.3-0.5 mil emulsion Allow parts to level at room temperature for 1-3 minutes before drying.
Printing Speed	Up to 15 cm/sec (6 in/sec)

3610

Conductor

Recommended Processing Guide (continued)

Drying Temperature	150°C for 5-10 minutes.
Process Temperature (TDS)	850°C to 950°C peak temperature Dwell time of 5-10 minutes at peak
Film Thickness	Fired 8-14 microns
Line Definition	> 125 microns (5 mils)
Recommended Thinner	Heraeus RV-507
Paste Compatibility	7600A multilayer dielectric 9000 Series Resistor System

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.

3610

Conductor

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

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.