

C4740S

Conductor

Description

C4740S is a general-purpose Ag/Pt conductor for use on alumina and BeO substrates. C4740S is suitable as a termination for all Heraeus air fireable resistor systems and also performs well as an inner layer conductor in multilayer applications. C4740S can be printed at speeds up to 12 inches per second and is capable of resolving fine lines as narrow as 5 mils.

Key Features

- Outstanding adhesion to alumina and beryllium oxide substrates
- Excellent performance at high print speeds
- Excellent solderability



This picture does not show the packaging of C4740S and is solely intended for illustration purposes. The products are available in different packaging configurations and may change over time. Please refer to the latest safety data sheets for safety-relevant pictograms.

Typical Properties

Conductivity	≤ 2.9 milliohms/square at 14 um fired film thickness
Viscosity	90 – 140 Kcps Brookfield HBTSC4 – 14 spindle, 6R utility cup at 10 rpm, 25 °C
Solids	84.0 ±2 %
Coverage	106 cm ² /g at 14 microns fired film thickness
Metal	AgPt

Recommended Processing Guide

Printing Parameters	280 stainless steel mesh screen 0.5 mil emulsion.
Drying Temperature	Allow parts to level at room temperature for 5 minutes 150°C for 10 minutes
Process Temperature (TDS)	850 °C peak temperature Dwell time of 10 minutes
Film Thickness	11– 15 µm
Recommended Thinner	RV-372

C4740S

Conductor

Warranty

6 months

Storage

Store in a dry location at 5°C-25°C

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) 04 May 2026