

C4303GSD

Conductor

Description

C4303GSD is a screen printable 2.1:1 Ag/Pd conductorpaste which exhibits a high density, high reliability and good fine line resolution. It fires to a smooth surface and is mechanically durable and chemically resistant. Hence it is a frequently preferred material for e.g. fuel sensors

Key Features

- Excellent conductivity, leach resistance and resistance to silver migration



This picture does not show the packaging of C4303GSD 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	≤ 45 milliohms/square (FFT: 12 μm)
Viscosity	30 – 45 Pas (25 °C, D = 100/s)
Solids	81.0 % ± 1.5 %
Alloy Ratio	2.1 : 1
Metal	AgPd

Recommended Processing Guide

Printing Parameters	a 200 – 325 mesh stainless steel screen. Total thickness: 50 – 110 μm
Printing Speed	Up to at least 20 cm / s
Drying Temperature	Level at room temperature for 5 – 10 minutes. Dry at 150°C for 10 – 20 minutes
Process Temperature (TDS)	Fire at 850 °C (peak) for 10 minutes, and with a total firing cycle time of c. 30 – 60 minutes
Film Thickness	9.0 – 13.0 μm
Recommended Thinner	HVS-100 RV-372
Paste Compatibility	Overglazes: IP 9025 Series Resistors: R 8900 Series R 8900 (WP 09-XY) Series

C4303GSD

Conductor

Warranty

12 months

Storage

Store in a dry and cool condition at 2 – 23 °C in a dark place with container tightly shut,

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) 26 Feb 2026