

C4313GSD

Conductor

Description

C4313GSD is a screen printable 25:75 Ag/Pd pre-alloyed conductor paste which exhibits a high density, high reliability and remarkable fine line resolution. C4313GSD has a highly enriched Pd content to address increased demands by harsh environment such as high sulfur fuel applications. Due its high densification during sintering the surface of this alloy is very smooth and greatly reduces risk of silver migration.

Key Features

- Very smooth fired surface Excellent conductivity, leach resistance and resistance to silver migration Exceptional chemical and physical wear resistance in use as a track material for sliders Economical alternative to gold in stringent fuel sensor application



This picture does not show the packaging of C4313GSD 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	≤ 180 milliohms/square (FFT: 12 μm)
Viscosity	25 – 60 Pas (25 °C, D = 100/s)
Solids	82.5 % ± 1.5 %
Alloy Ratio	1 : 3
Metal	AgPd

Recommended Processing Guide

Printing Parameters	Print through 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	8 – 13 μm
Recommended Thinner	HVS-100

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Warranty

6 months

Storage

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

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