

CL40-9405

Solid Oxide Fuel Cell

Description

CL40-9405 is an fritless Ag/Pd conductor designed to be used as a current collector paste on the cathode side for the Solid Oxide Fuel Cell applications. The CL40-9405 is compatible with Heraeus cathode pastes.

Key Features

- Good adhesion to cathode layer
- Good cosmetics



Typical Properties

|             |                                                                                |
|-------------|--------------------------------------------------------------------------------|
| Viscosity   | 100 – 160 kcps, Brookfield HBT, SC4-14 spindle & 6R utility cup @ 10 rpm, 25°C |
| Solids      | 79.0% ± 1.0%                                                                   |
| Coverage    | 75 cm²/g at 12 µm FFT                                                          |
| Resistivity | ≤ 30 mΩ / sq., FFT: 12 µm                                                      |

Recommended Processing Guide

|                           |                                                     |
|---------------------------|-----------------------------------------------------|
| Printing Parameters       | 280 stainless steel mesh<br>0.5 mil emulsion        |
| Drying Temperature        | 150°C for 10 minutes                                |
| Process Temperature (TDS) | 850-900°C, 10 minute dwell time at peak temperature |
| Film Thickness            | Dried: 23-27 µm, Fired: 12-17 µm                    |
| Recommended Thinner       | Heraeus RV-372                                      |

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#### 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.

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