

**Description:** CN33-483 Polymer Silver Conductor is designed for Photovoltaic applications on Thin Film, Crystalline silicon and Micro-crystalline silicon Solar Cells. The conductor provides a low contact resistance and high bulk conductivity when cured properly; it also displays excellent solderability and adhesion on a wide variety of substrates. CN 33-483 is compatible with high throughput manufacturing techniques including screen printing, dispensing and pad printing.

### Processing Recommendations

**Printing:** A 200 mesh stainless steel screen with 1 mil emulsion. Other screen meshes with appropriate emulsion thicknesses may be used.

**Cure Temperature:** 160°C – 200°C

**Paste Storage & Shelf Life:** 4 months from date of shipment when stored at 5°C. Allow unopened jars to stabilize to room temperature after removal from refrigerator to prevent condensation.

Typical Properties	
	CN 33-483
Viscosity (Kcps) <sup>1</sup> :	60 ± 15
Solids Content:	71% ± 2%
Film Thickness	21 – 29 μm
Wet Thickness:	30 ± 4 μm
Cured Thickness:	25 ± 4 μm
Sheet Resistance (milliohms/square):	50 @ 24 μm
Coverage	100 cm <sup>2</sup> /gm @ 35 μm wet
Recommended Thinner	0800
Clean Up	Butyl Carbitol Acetate

Notes:

<sup>1</sup>Viscosity using a Brookfield model HBT viscometer with 13R small sample adapter chamber and #27 spindle at 10 rpm, 25°C.

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