



Argenhelvet Holding

Thick Film Composition **ELE3100** Series

DESCRIPTION

Thick film conducting ink **ELE3100 Series** is specially designed for Photovoltaic applications on the p-side of Crystalline Silicon Solar Cells.

TYPICAL APPLICATIONS

- p-side of Crystalline Silicon Solar Cells

KEY FEATURES

ELE3100 Series is designed for:

- Excellent adhesion
- Co-fire with front side

TYPICAL PROPERTIES

- **Solids content:** 67 % typical
- **Viscosity:** 60000 – 80000 cP

PROCESSING

- **Screen Printing Equipment:** High speed printing
- **Substrates:** p-side of Si solar cell
- **Screen Type:** 250 – 325 mesh stainless steel
- **Typical Drying Temperature:** Oven 150°C for 10 minutes minimum
- **Firing:** Peak at 810 – 950°C for 5 – 10 seconds
- **Clean-up Solvent:** S1001

THINNER

ELE3100 Series is optimized for screen printing. However, if thinning is necessary, T208 should be used for slight adjustments.

STORAGE

ELE3100 Series should be stored at 10 – 30°C within the sealed containers. Settling of solids may occur during storage, so the material should be stirred thoroughly prior to use.

SHELF LIFE

ELE3100 Series has a shelf life of 6 months from date of shipment for factory-sealed containers, stored under our recommended condition.

APPLICATION ASSISTANCE

Our Application Specialist are available to assist you in production star-up with the products. Please contact us for more information.

HEALTH AND SAFETY

Our products are intended for industrial use by trained personnel. The following precautions should be taken when handling the products:

- Read the Material Safety Data Sheet before processing the products.
- Use properly designed engineering controls, such as local ventilation, to limit operating personnel exposures.
- Keep container closed when not in use.
- Do not ingest. Harmful if swallowed.
- If contact with skin occurs, wash affected area immediately with water.

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