



# Argenhelvet Holding

## Polymeric Composition **ELE3800** Series

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### DESCRIPTION

Polymer conducting ink **ELE3800 Series** is specially designed for Photovoltaic applications on Thin Film Solar Cells.

### TYPICAL APPLICATIONS

- Thin Film Solar Cells

### KEY FEATURES

ELE3800 Series is designed for:

- Low contact resistance
- High bulk conductivity

### TYPICAL PROPERTIES

- **Solids content:** 77.5 % typical
- **Viscosity:** 45000 – 80000 cP
- **Sheet resistivity:** < 0.010 Ω / square / 25 µ m
- **Adhesion / Tape Pull:** No Conducting Metal Transfer

### PROCESSING

- **Screen Printing Equipment:** Reel-to-reel, semiautomatic, manual
- **Substrates:** Polyester, polyimide, PVC, ABS, polycarbonate, ITO/FTO coated glass
- **Screen Type:** Polyester, stainless steel
- **Typical Cure Temperature:** Oven 145°C for 30 minutes
- **Clean-up Solvent:** S1008

## **THINNER**

ELE3800 Series is optimized for screen printing. However, if thinning is necessary, T103 should be used for slight adjustments.

## **STORAGE**

ELE3800 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**

ELE3800 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 start-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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