



# MCS-570AG

## SILVER CONDUCTIVE SCREEN PRINTABLE INK

MCS-570AG has been formulated as a general purpose Polymer Thick Film Silver containing conductor ideal for use in Electro Luminescence (EL sheet) and other flexible applications. MCS-570AG has excellent adhesion to indium tin oxide (ITO), polyester and polyimide substrates.

By using a unique combination of silver flake and the latest in resin technology, the MCS-570AG possesses excellent conductivity, abrasion resistance and printability.

If required, carbon resistive ink may be added to give a specific level of conductivity.

It can be used with semi-automatic and manual printers and offers excellent residence time on the screen.

### Typical Properties:

Volume Resistivity (W cm) @ 10mm	< 0.00009
Adhesion / Tape Pull (3M Scotch Tape #600)	100/100
Abrasion Resistance, Pencil Hardness (ASTM D3363-74)	2H
Viscosity (Poise) (RION Viscometer, #2 spindle, 25°C)	200 - 240 P
Solid Content	57%
Shelf Life	6 mths in Unopened Container

### Processing:

Printing	Suitable for Manual, Semi-automatic,
Substrates	Polyester, ITO Film
Ink Residence Time on Screen	> 2 Hours
Screen Types	Polyester, Stainless Steel
Typical Cure Conditions	130°C for 3 mins
Typical Circuit Line Thickness with 270 mesh Polyester	5 ± 1 Microns
Cleanup Solvent	MEK, MIBK, Acetone or other suitable solvents
Storage	Store at ambient temp, some settling of solids may occur, stir vigorously before use

Specification subject to change without prior notice

### Safety & Handling:

The following precautions should be exercised when handling:

- Avoid prolonged contact with skin. If contact with skin occurs, wash immediately with soap and water
- Use with adequate ventilation, avoid prolonged breathing of vapour
- Dangerous if swallowed - DO NOT CONSUME

The performance characteristics are influenced and affected by printing technique, nature of substrate, curing time, curing temperature and type of drying equipment.

Before adopting our products for commercial use, the user assumes responsibility for determining fitness of use in their particular application and process. MEMCON makes no warranties and assumes no liability in connection with any use of this information.

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