



# MCS-540AG

## SILVER CONDUCTIVE SCREEN PRINTABLE INK

MCS-540AG 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-540AG 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-540AG 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.

Volume Resistivity (W cm) @ 10mm	< 0.00006
Adhesion / Tape Pull (3M Scotch Tape #600)	100/100
Abrasion Resistance, Pencil Hardness (ASTM D3363-74)	2H
Viscosity (Poise) (BF Viscometer, #14 spindle, 20rpm, 25°C)	14000 ± 1000
Solid Content	60% +/- 2%
Shelf Life	6 mths in Unopened Container

Printing Substrates	Suitable for Manual, Semi-automatic, Polyester, ITO Film
Ink Residence Time on Screen	> 2 Hours
Screen Types	Polyester, Stainless Steel
Typical Cure Conditions	90°C for 15 mins 121°C for 5 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, gently stir before use, avoid rapid stirring as this causes air entrapment

### 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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