



MCS-500AG

SILVER CONDUCTIVE SCREEN PRINTABLE INK

MCS-500AG has been formulated as a Silver Conductive Screen Printable ink ideal for use in flexible circuit, membrane switch, touch switches and other flexible applications. MCS-500AG is a general purpose polymer thick film silver-containing conductor for use only on print treated polyester or polycarbonate.

By using a unique combination of silver flake and the latest in resin technology, the MCS-500AG possesses excellent conductivity, abrasion resistance and printability.

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

Appearance	Thick Silver Coloured Paste
Volume Resistivity (Ω /sq cm)	$\approx 0.5 \times 10^{-4}$
Adhesion/Tape Pull	100/100 (no material removal)
Abrasion Resistance, Pencil Hardness (ASTM D3363-74)	2H
Solids Content	65%
Viscosity (poise) (RION VT-04, #2 spindle 25°C)	120 / 150
Cure Conditions	120°C for 10 mins
Circuit Line Thickness (printed with 270 mesh polyester)	5 ± 1 microns
Coverage (dependent on screen size and material)	20 x / 10 x / kg
Shelf Life	6 mths in unopened container

Printing	Suitable for Manual, Semi-Automatic or High Process's
Screen Type	Polyester or Stainless Steel
Substrates	Polyester or Polycarbonate
Cleanup Solvent	MEK, MIBK, Acetone or similiar 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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