

## PRODUCT DESCRIPTION

Mateprincs OCAG-001 is a silver based conductive ink for offset lithography. It is suitable for printing on paper substrates.

It is specifically formulated to be used in printed electronics applications.

## PRODUCT BENEFITS

- Excellent behaviour in the offset machine
- Good compatibility with other conductive inks
- Stable over time
- Good definition

## PROCESSING

### Printing equipment

- Offset press
- Mixed thoroughly prior to use
- Prior to printing let the ink at room temperature for at least 15 minutes
- Printing speed: 4000-6000 sheets/hour
- Sometimes to improve printing is necessary to use Anti-drying spray
- For improving conductivity print several layers (2-3 layers)

### Curing conditions

Static Box oven: 130°C, 20-30 min

Belt furnace: 130°C, 3-4 min

### Clean-up

To clean offset machine use a general product for offset cleaning. It is recommended to clean the offset printer after finishing the printing job.

## INK PROPERTIES

### Typical properties of uncured ink

Solids Content, %	75.5-77.5
Viscosity, Pa·s, (rheometer, 23°C), 200 s <sup>-1</sup>	65-80
Viscosity, Pa·s, (rheometer, 23°C), 100 s <sup>-1</sup>	80-90
Density, g/cm <sup>3</sup>	3.15

### Typical properties of cured ink

Adhesion, UNE EN ISO 2409	0-1
Sheet resistance, Ω/□ (2 layers)	4-6
Sheet resistance, Ω/□ (3 layers)	0,5-1,5
Resistivity, mΩ·cm	0,5-0,6

## STORAGE AND SHELF LIFE

Store the product in an unopened container in a dry location at room temperature (25°C). Avoid high temperatures and freezing. The ink shelf-life for an unopened container is 6 months from the date of shipment. Some settling may occur and the ink should be mixed thoroughly prior to use.

## SAFETY AND HANDLING

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS)



## DISCLAIMER

All the information provided in the technical data sheet including the eventual recommendations for use and the applicability of the product are based on our test results carried out by our technical team and we believe them to be accurate and reliable. We cannot make any warranty or representation express or implied, now or hereafter, as to the marketability, merchantability or fitness for use or for a particular purpose of any of the products. Furthermore we cannot assume any responsibility from any third party use, studies or applications as we have no control over their methods. In any case, and in the event that we would have to legally assume any responsibility related to our products, such responsibility will be limited to the amount paid by the client for the products.