

## Product description

The silver ink is a printable glycol-based formulation. It can be deposited using screen-printing and coating techniques and was specially designed to create highly conductive lines. The ink shows shear thinning behavior and can be dried using a conventional dryer.

Viscosity*	8000 cP
Density (g/ml)	2.6 g/ml
Color	Silver

\* IKA ROTAVISC hi-vi I, disk spindle SP-8, 5RPM, 25°C

## Pre-conditioning

The ink should reach room temperature before use and then gently hand stirred with a spatula for 1-2 minutes. A mechanical stirrer can be used but no high shear nor high velocity should be used.

## Storage and handling

The ink should be stored at an even temperature in the range of 5°C to 10°C. Storage for more than 6 months is not recommended. After each utilization, the containers must be well closed to minimize solvent loss.

## Health and safety

Please consult the appropriate Material Safety Data Sheet available on:

<https://www.ynvisible.com/ink-kit-description>

## Screen printing & drying recommendations

### Screen & squeegee parameters:

- Screen: Yellow polyester mesh 110 wires/cm (Diameter: 40 µm)
- Squeegee: Rubber (Hardness: 70°-80° shores)

## Curing

After printing, the silver ink needs to be dried. The use of a conventional hot air dryer is recommended. Depending on the substrate used and the coating thickness, a temperature of 120°C (±10°C) for 6 minutes is recommended. For small printed areas, a hot plate can be used. After fully dried, no additional annealing is required.

## Cleaning

Solution: MEK (Methyl Ethyl Ketone)