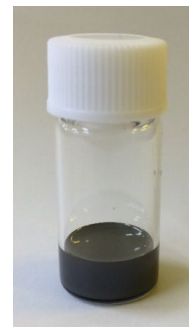


# Ag nano ink material for 3DPrinted electronics

## Material design

A silver nano-ink which is sintered at 80 °C and made of Ag nanoparticles that are 40nm and 130nm in diameter and in which a special dispersion stabilizer is used.



## Features

	OAG-シリーズ
Ag content	20-85wt%
Viscosity	4-3000 mPa·s
Storage stability	>2 month@23°C
Sintering condition	80°C/30 min-
Volume resistivity	6 $\mu\Omega\cdot\text{cm}$ (80 °C) 4 $\mu\Omega\cdot\text{cm}$ (100 °C)
Substrate	PC,PET, PP, Si, Glass

Possible from low concentration to high concentration

High stability at room temperature

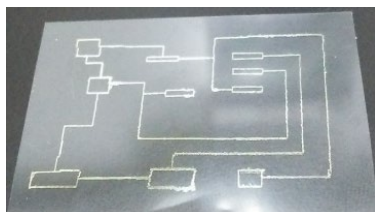
Curable at low temperatures and low resistance

Pretreatment of base material is not required

## Coating Process

### Application to 2D structures

#### -Inkjet



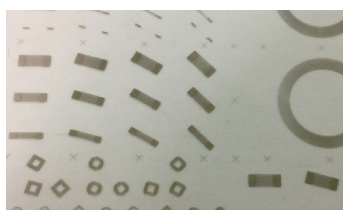
•Inkjet process on PET film

#### -Aerosol jet



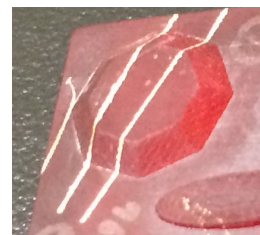
AJ-300 (Optomec)

#### -Gravure



•Smartlabo-III (komura-tec)

### Application to 3D structures



•Inkjet process on 3Dprint model