

Low-temperature sintering metal ink

Features

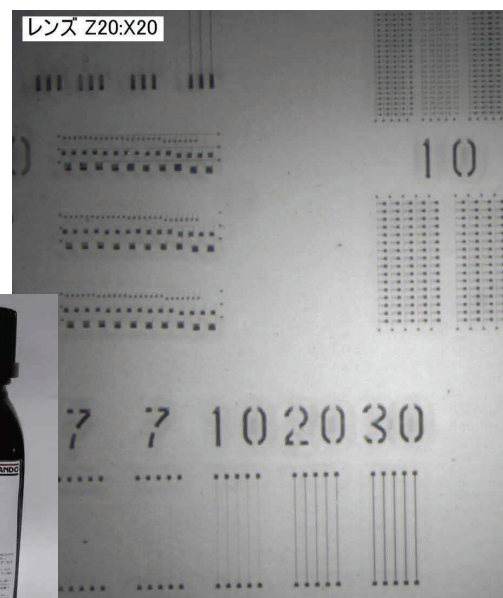
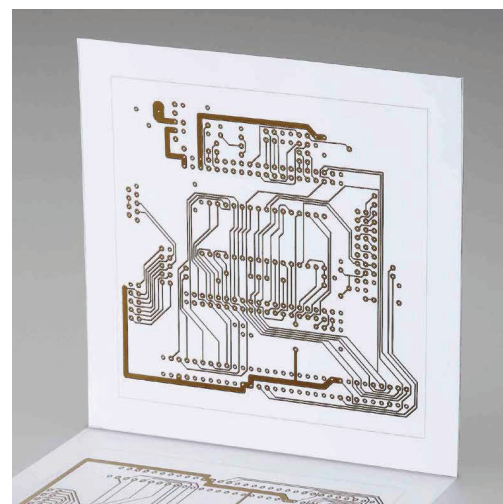
- Low-temperature sintering ($\leq 120^{\circ}\text{C}$) suitable for substrates with low heat resistance
- Water-based and solvent-based inks are available for inkjet, flexo and offset printing methods

Development background

Conductive ink is a key material in the printed electronics field. FlowMetal® was developed making use of Bando's long history in particle dispersion technology for applications in this growth field

Applications

- Transparent conductive film (metal mesh) for touch-panels and touch-sensors
- Conductive wiring/circuits and electrodes for flexible devices
- Solar cells; RFID; color materials; reflective materials



Code	SW1000	SR6000	SR7000
Metal Content [wt%]	40	40	30
Principal Solvent	Water	Alkane	Alcohol
Sintering temp. [°C]	120	100	120
Resistivity [$\mu\Omega\text{cm}$]	8	10	10

- Conductive inks for printed electronics
- Sinterable at low temperature
- Applicable to various printing methods (Inkjet, Flexo and Offset printing)