

## 잉크젯에 의한 은나노 잉크의 패터닝 및 소결

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### **Patterning and Sintering of Silver Nano Ink by the Ink-Jet Printing Technology**

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**Abstract** : Silver nanoparticles were synthesized by polyol process and its particle size observed with TEM is about 20nm. Silver nanoparticle ink with metal content of 30wt% was prepared using solvent of ethanol and has low viscosity of 5cps (10rpm). This ink was printed by as ink-jet printer on Al<sub>2</sub>O<sub>3</sub> and Silicone substrate. The resistivity and morphology of the printed film was investigated as a function of sintering temperature.

**Key Words** : Nano Ink, Silver, Sintering, Ink-Jet, Printing