

## 잉크젯 프린팅을 위한 은 나노 잉크의 전기전도도

The electric conductivity of silver nano ink for inkjet printing.

Samsung Electro-Mechanics Jae Woo Joung\*, Young Ah Song, Sung Il Oh

Silver nano particles are being widely used in electronic parts. The conductive line of electronic parts required high electric conductivity and low sintering temperature. We have developed new suspension solutions consist of silver nano particles.

In this study, we synthesized 5 to 20 nm particles in aqueous phase, which were stabilized with MSA and PVP relatively. We formulated suspension solutions with various contents.

We was make fine printed conductive line by a micro dispenser and then was sintered at 200 ~ 250 °C for 30 ~ 60 minutes in air. We have found that small size particles have unique sintering property by SEM analysis.