1) Aluminum Ink and Coating

Alink has secured technologies for producing commercial quantities (50L/batch) of aluminium precursor ink and for the coating of highly conductive aluminium nanostructure on several kinds of substrates such as glass, plastic, fabrics, paper, and metal. These technologies will be applicable for use in flexible & wearable electronics and energy & environmental industries.

알링크는 대량 (50L/batch)의 알루미늄 전구체 잉크를 생산할 수 있는 기술과 그 잉크를 이용하여 높은 전기전도성을 보유한 알루미늄 나노구조체를 다양한 물질의 기판 표면에 코팅할 수 있는 기술을 세계 최초로 확보했습니다. 이러한 기술은 유연/웨어러블 전자산업 및 에너지 환경 산업 등 미래 핵심 산업의 핵심 원료소재 및 공정기술로 활용될 수 있으며 ㈜알링크는 이러한 기술의 산업 현실화를 위해 끊임없이 노력하고 있습니다.
Aluminum nanostructured film coated on substrate by Alink’s technologies

a) Aluminum(Al) film coated on PET substrate by Alink’s technologies, b), c) surface & cross section microstructures of the Al film, respectively, d) TEM images and crystal structure of the Al film, e) AFM image of the Al film
**Electrical property of Al film coated on substrates by Alink technologies**

Comparison of Alink processed Al film with Au & Ag films prepared by a printing process; Generally Ag and Au are much lower than Al in electrical specific resistivity, but Alink processed Al films are superior to Au and Ag films prepared at low temperature surroundings in electrical conductivity.
Applications of Alink processed Al film

a) All solution processed OLED with Alink processed Al film used as cathode, b) Electric circuits consisting of Alink processed Al film on a magazine paper substrate