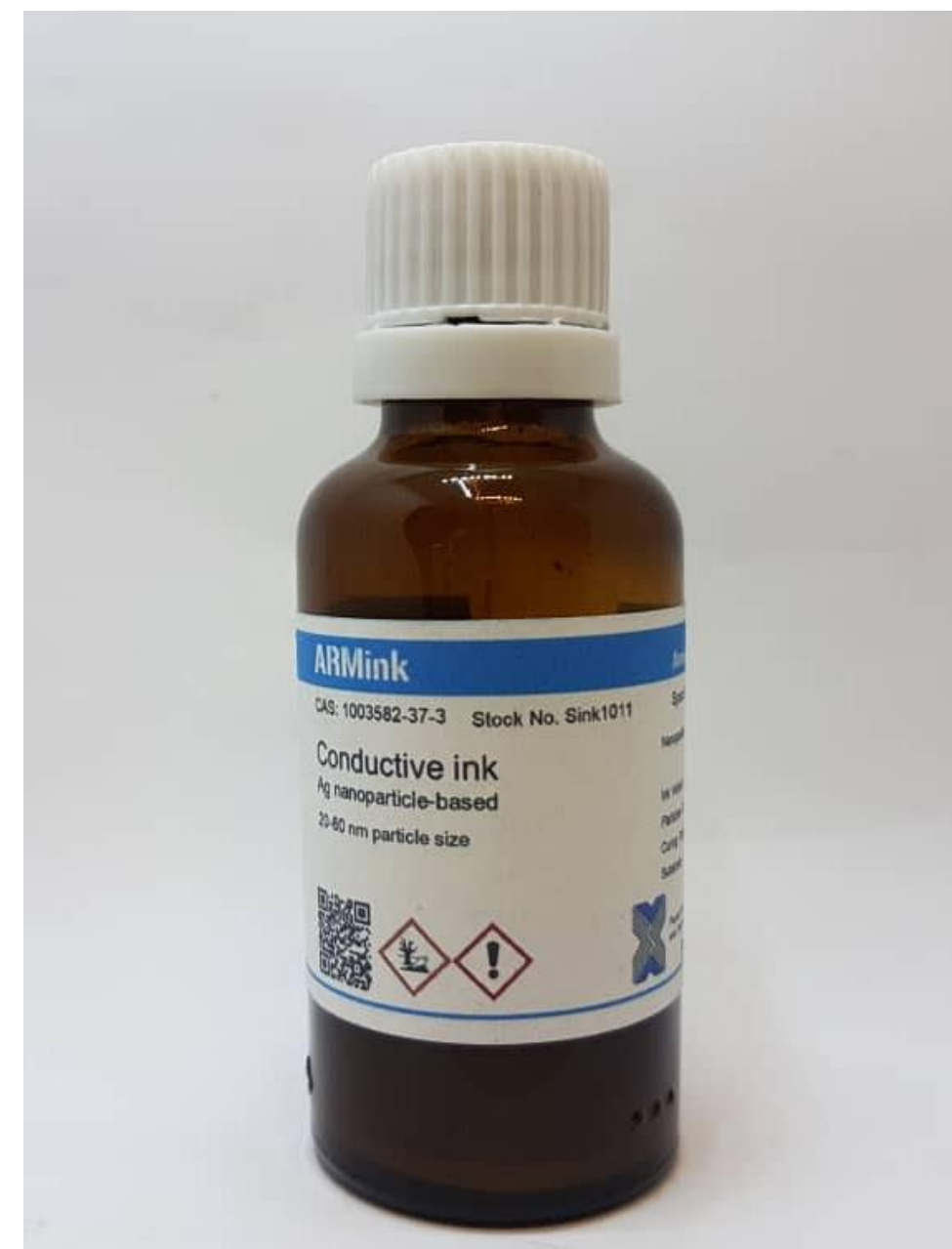


## Conductive Ink – Silver base

### Description:

Recently new printing methods were developed to manufacture flexible electronics. Between these methods, using conductive inks has a low material waste, simple manufacturing process, low prices, large area, high precision, and many other advantages. Therefore, Graphite or metal particles based conducting inks for direct patterning on flexible substrates represent the most promising manufacturing way. The Graphite for its relatively low resistivity and stable property has been considered as the most appropriate conductive ink.

Characterization		
CAS	7782-42-5	
Stock No.	ARMINK-S30	ARMINK-S40
Ag content (%wt./v)	30	40
Particle size (µm)	<2	<2
Ink vehicle	PolyOlefin	PolyOlefin
Color	Gray	Gray
Curing temperature	RT or 110 °C	RT or 110 °C
Curing time (min)	35@RT- 15@110 °C	35@RT- 15@110 °C
Substrate	PVC, PP, PE, Glass	PVC, PP, PE, Glass
Viscosity (cP Brookfield - low shear)	3500-4600	2500-3700
Sheet resistance @thickness of <50µm (Ω/□)	<2.1	<1.5
Adhesion (tape cross hatch)	No Transfer	No Transfer
Packaging Weight (gr)	10, 25, 1000	10, 25, 1000



**Note:** product specifications are subject to amendment and may change over time.

### Drying condition:

Dry in ambient condition. No heating or blowing is needed.

### Storage and Shelf life:

Keep it in cool dry place.

Avoid direct sunlight.

Do not freeze.

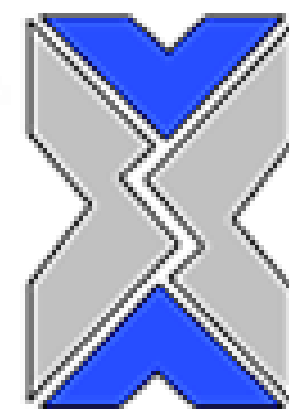
Do not leave it open for long time.

Containers should be stored, tightly sealed, in a clean, stable environment at room temperature (25°C).

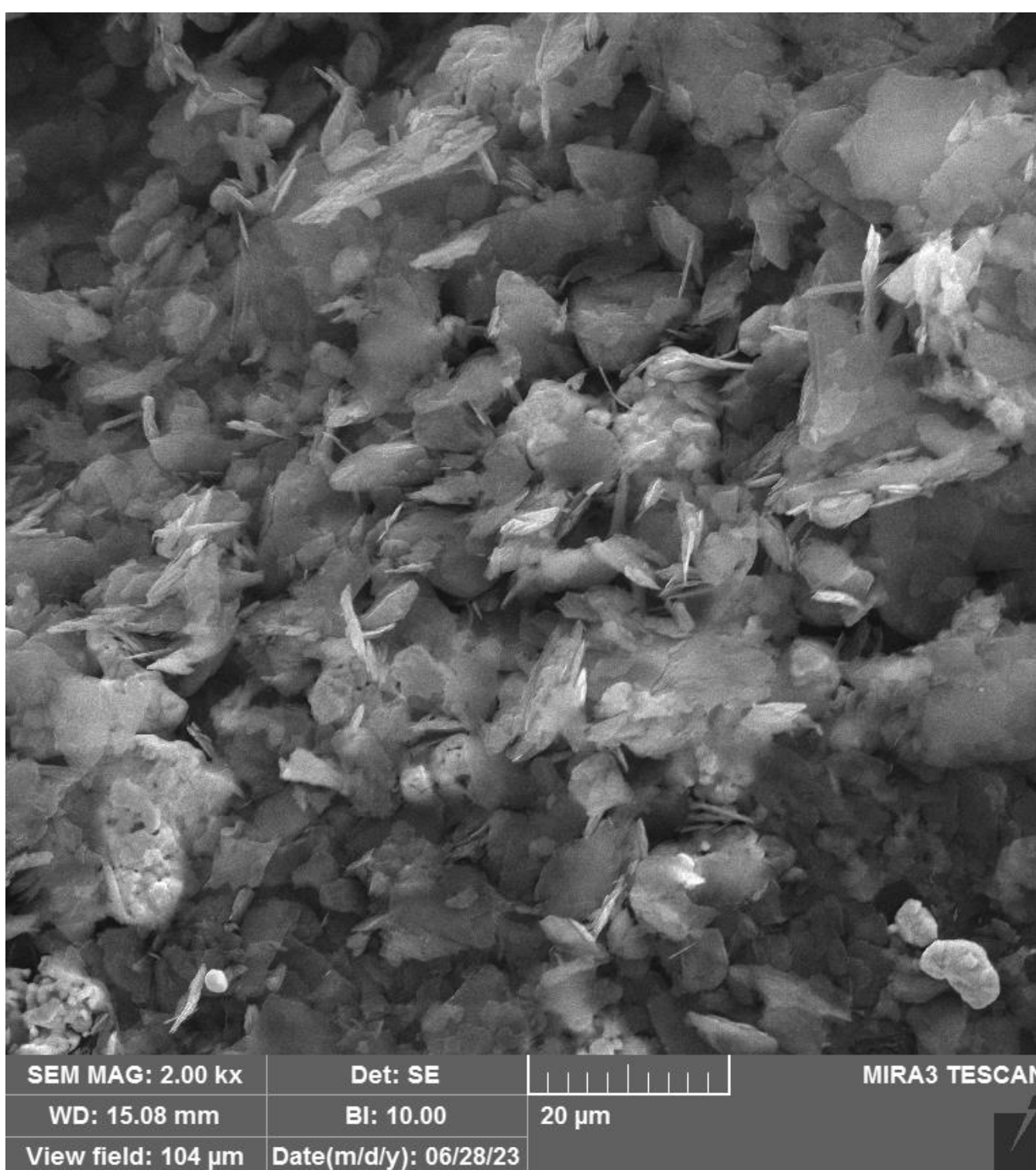
Shelf life of material in unopened containers is six months from date of shipment.

Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

Tinning is not recommended.



## Conductive Silver Ink Sink10



SEM images of particles in product



Images of printed circuit board