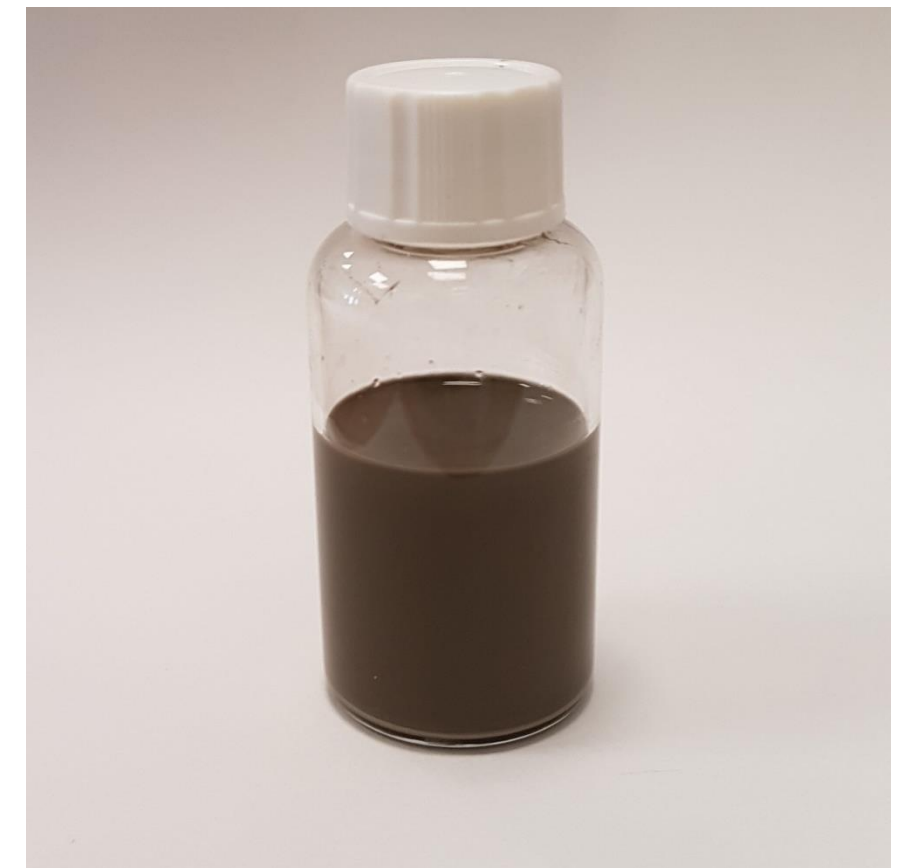


Conductive Ink – Graphite base ARMINK-G30

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-G30	ARMINK-G40
Ag content (%w/v)	30	40
Particle size (nm)	10-15	10-15
Ink vehicle	PolyOlefin	Water
Color	Black	Black
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	Paper, Ceramics
Viscosity (cP Brookfield - low shear)	3500-4600	2500-3700
Sheet resistance (Ω/\square)	<15	<22
Adhesion (tape cross hatch)	No Transfer	No Transfer



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.

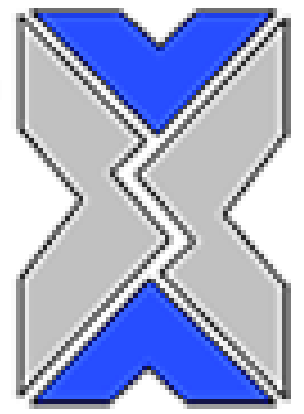
Do not leave it open for long time.

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

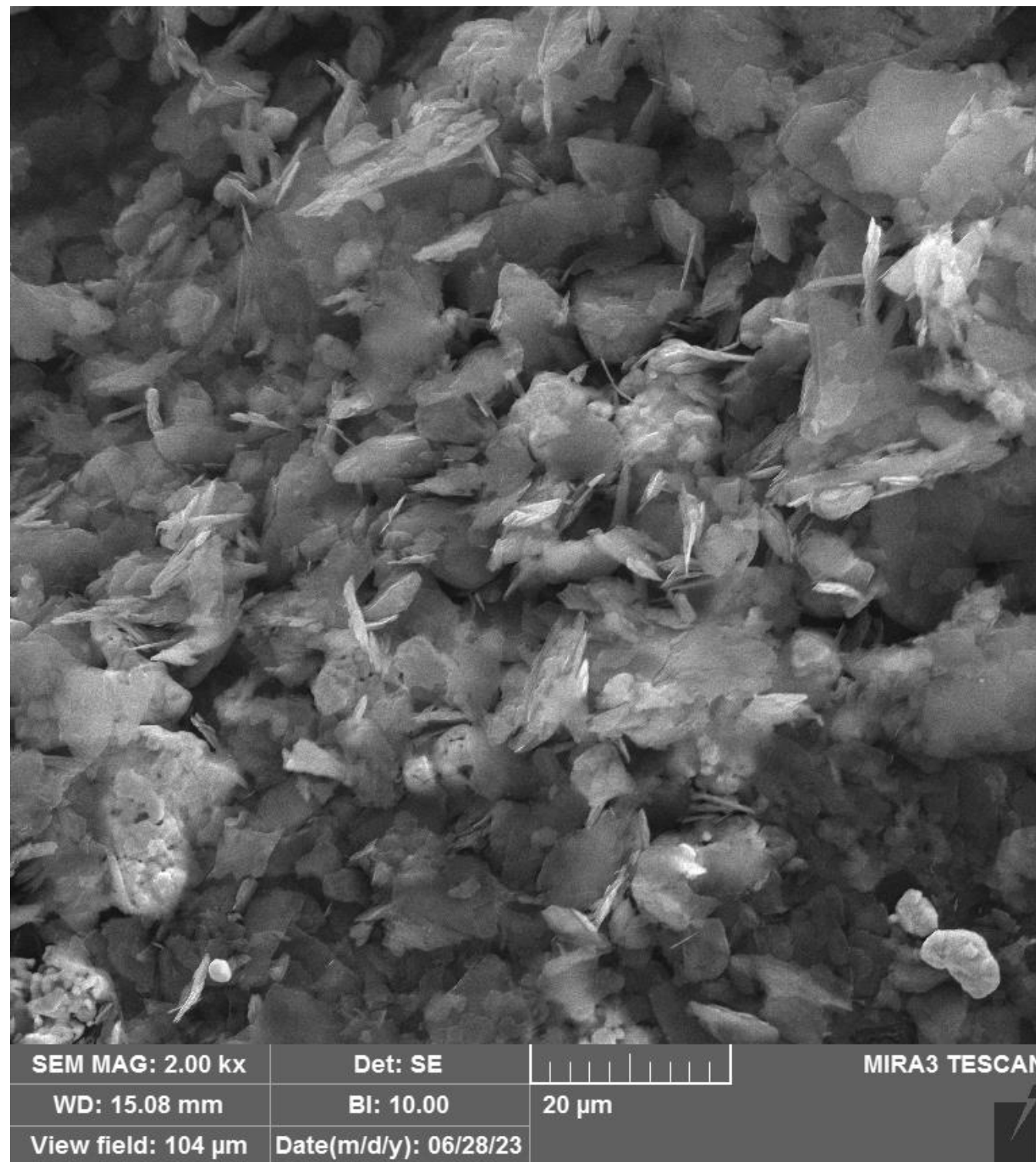
Shelf life of material in unopened containers is six months from date of shipment.

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 Graphite base conductive ink – ARMINK G30



Images of printed circuit board