

AilArian Ltd

www.ailarian.co.uk

Version: 1.1



AilArian

Ink Technical Data Sheet

Ink Reference	AgFe1.3
Description	Water based recyclable silver conductive ink for screen printing of conductive material and circuit.
Viscosity	TBC
	The ink is shipped as a screen paste to prevent settling, while this maybe suitable for most processes the viscosity can be adjusted by the addition of water or glycerol at between 1 – 3% by weight.
Processes	Screen printing, stencil printing, coating
Drying	100C for 5 mins or Air drying
Sintering	Not required
Cleaning	Wet ink can be cleaned with water or other polar solvent Dry ink can be cleaned with hot water
Shelf life	TBC

Adhesion confirmed via tape test	Card stock - confirmed PET – TBC Soluboard - confirmed
Electrical	Resistivity – TBC $\mu\Omega/cm$ Sheet resistance – TBC $\Omega/sq/mil$
Flexibility	TBC
Sustainability	Low temperature drying Water-based Natural polymer resin Non-toxic Recyclable – see note below on disposal
Embedded Carbon Estimate*	15kg/kg
Disposal	Separate cleaning cloth/rags and unused prints etc

Last updated: 05/09/2024



	Collection can be arranged for recycling and recovery of the silver conductive material in an environmentally friendly way for reuse A % of the value of the recovered material will be returned – value TBC
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*Estimated embedded carbon is based on a combination of estimates for the mining processes associated with the metal components. These contribute the largest percentage. A more accurate number will be created once we have more information from our suppliers.