

### INK JET PRINTABLE SILVER C2040712D5

This product is an Organo-Silver compound in Aromatic Hydrocarbon solvent designed specifically for ink jet printing using a Dot-on-Demand print head.

After printing the Organic component it is broken down and vapourised to leave a pure Silver conductor. During the process the Silver metal is deposited as small nano-particles that gradually merge to form a coherent conductor track. This 'activation stage' is carried out at room temperature of 150°C for 60 minutes.

#### USE

The ink is in a ready to use form at a viscosity suitable for printing via an ink jet. However adhesion is greatly improved where the substrate is itself inherently adhesive

#### PROPERTIES

##### Storage

This product should be stored in a cool, dry place at a temperature not exceeding 25° C. Before use it is recommended that the product is stirred thoroughly to ensure complete homogeneity.

This product is light sensitive and should be kept out of direct sunlight.

##### Shelf Life

If the product is kept as recommended the shelf life is 3 months from despatch. (Or otherwise marked on the container)

#### APPLICATION METHOD

This product is in a ready to use form at a viscosity suitable for printing via an ink jet printer

##### Substrate

The Silver conductor produced in this way will adhere to a variety of substrates including Alumina, Glass, Polyamide and Polyester. The wide substrate tolerance together with the low temperatures involved in the process allow relatively inexpensive substrates to be used, thus making this material suitable for use in disposable units

##### Firing/Curing Conditions

After drying cure the print at 150°C for 1 hour, or alternatively dry and cure at 130° for 3 hours

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