

Conductive nanosilver ink for inkjet printing

Catalog No. 907022

Jetting, Printing and Curing Parameters

- Inkjet ink should be stored at 4 ºC.
- Cartridge: DMC11610, 10 pL. After filling the cartridge, let it rest by 1 hour before to use it.
- Waveform: Provided upon request.
- Print head temperature: 25 35 ºC.
- Meniscus: 5.
- Jetting frequency: 2 7 kHz.
- Non-jetting frequency: 2 kHz (tickle mode activated).
- Applied voltage: 18 − 26 V.
- Substrate temperature: 25 60 ºC.
- Printhead distance: 0.5 0.8 mm.
- Leader bar (optional): 1 mm wide, 2 mm away from designed pattern.
- Curing in box-oven: 150

 C by 30 min.
- Curing with NIR lamp also possible.

Ultrasound treatment for improved jetting performance

Before filling the disposable cartridge:

- Place the Ag ink bottle inside an ultrasound bath for 30 45 min.
- Note the bottle should not touch directly the walls of the bath.
- Keep the temperature below 30 °C for instance by adding ice on the bath.
- Fill the disposable cartridge. Ice bath or coldice pack
- Micropipettes

Additional information

In case purging is required, the excess of ink at the nozzle plate can be removed by manual wiping of the cartridge either inside or outside the Dimatix printer. With this aim it is convenient to use a clean roomtype tissue slightly wetted on the flushing solution or isopropanol. The cartridge can be stored outside the printer in a clean and dry environment for about a week after filled but it is recommended to place it up side down to avoid any ink leaking from the cartridge.

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