

Creating Material Change



FLEXS0001

Flexible Heater Silver
Technical Data Sheet



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Screen Printable Graphene Ink

Product name: FLEXS0001 Flexible Heater Silver
Chemical family: Silver
Properties: Electrically conductive, very flexible
Typical uses: Conductive tracks for use with FLEXC0001 ink
Solid content: 68 -74%

Key features:

- Flexible silver ink
- Designed for screen printing
- Electrically conductive
- Curable at 120-140°C
- Print onto cotton, polyester/cotton blends or polyester sheets for transfers

Viscosity: High to medium press ready. No thinning required
Stencil: HD200, HD220 emulsion 100mic or cap film 100mic
Sheet resistivity: $5 \times 10^{-5} \Omega/\text{sq}$ (customise)
Coverage: 25m² per kg
Squeegee shore: 70 shore hardness
Wash fastness: BS EN ISO 6330: 2001

Handling guidelines	
Printing equipment	Screen printer; semi-automatic, manual, fully automatic
Mesh count	Meshes of 77 - 120 threads per cm
Substrates	Cotton, poly-cotton mix
Drying conditions	Can be dried at 130°C for 3-4 minutes infrared or gas drying tunnel
Clean-up solvent	IMC00001 On Press Wash and Mesh opener <i>Warning - do not use other screen cleaners as this may result in the ink gelling and the mesh blocking prematurely</i>
Storage	When not in use, the product should be kept sealed in its container and stored at controlled temperatures between 7-20°C <i>Warning - do not allow to freeze</i>
Shelf life	Ink in an unopened container has a recommended shelf life of 6 months from date of delivery

All values reported here are results of experiments conducted in our laboratories and are intended to illustrate the products performance. They are not intended to represent the final product specifications.

Health and Safety

These inks are intended for research and industrial use by trained personnel. It is important for workers to avoid overexposure to chemicals contained in these products. Always consult the Material Safety Data Sheet (MSDS) and product labels before using the products. Keep product container closed when not in use to prevent solvent evaporation and spilling hazard.

The content supplied in this technical data sheet ("Information") supersedes all previous versions supplied. Version 2, June 2019

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