

## BEST TECHNOLOGY CO., LIMITED

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# 导电银浆产品说明书 Conductive Silver Ink Instruction

Here is instruction of conductive silver ink used in [polyester dome](#) ([Polydome](#)) in Best Technology.

它是由超细银粉和低温固化热塑性树脂精研而成，适用于丝网印刷。可广泛用于薄膜开关、压 PIN 式键盘线路，在 PET 和 PC 等片材上均可使用，有着良好的印刷性、导电性、抗氧化性、硬度、和极强的附着力。Made of ultra-fine silver powder and low-temperature curing thermoplastic resin, this silver ink is suitable for screen printing, and was widely used in membrane switch, pressure-pin keyboard circuit, as well as PET and PC and other sheets, with good printability, electrical conductivity, antioxidation, hardness, and strong adhesion.

### 一、性能指标:

#### I. Performance:

- 1、填料: 银
1. Filler: Silver
- 2、固体含量 (wt%): 45-55
2. solid content (wt%): 45-55
- 3、密度 (g/cm<sup>3</sup>): 1.50-1.70
3. Density (g/cm<sup>3</sup>): 1.50-1.70
- 4、粘度 (CPS) (旋转式粘度计, II 单位, 75rpm, 25°C) 15, 000-20, 000
4. Adhesion (CPS) (rotary viscosimeter, II - unit, 75rpm, 25°C), 15,000-20,000
- 5、涂布面积 (cm<sup>2</sup>/g) (取决于膜层厚度) 100-200
5. Coating area (cm<sup>2</sup>/g): (depend on thickness of film) 100-200
- 6、方电阻 (mΩ/□/25.4μm) ≤15
6. Square Resistance (mΩ/□/25.4μm): ≤15
- 7、附着力 (3M600 胶带, 垂直拉) 无脱落
7. Adhesion (3M600 tape, pull vertically) No shedding
- 8、硬度 (中华铅笔) ≥2H
8. Hardness (Zhonghua Pen): ≥2H
- 9、挠曲性 (导线宽 1mm, 2 公斤力×1 分钟×单面折 5 次) ΔR/R<300%
9. Flexibility (for 1mm width wire, folding 5 times on single face with 2 kilogram force for 1 minute) ΔR/R<300%
- 10、长期工作温度 (°C) <70
10. Long-term working temperature (°C): <70

### 二、使用方法:

#### II. How to use:

- 1、基片 PET 或 PC;
1. Substrate: PET or PC;
- 2、丝网 用 200-350 目不锈钢丝网或聚脂丝网印刷;
2. Silkscreen: Printing with stainless silk stencil in 200-350 meshes or polyester silk stencil;

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3、稀释剂 以 X737 稀释剂稀释，使用前应充分搅拌，添加量不超过 3%；

3. Diluent: Diluted with X737 diluent, stir fully before use, and the amount added should not exceed 3%;

4、固化工艺（推荐）

4. Curing process (recommended)

IR 烘道：135°C×2 分钟

IR drying tunnel: 135 °C× 2 minutes

烘箱：135°C×60 分钟

drying oven: 135°C×60 minutes

5、清洗剂 环己酮

5. Cleaning agent: cyclohexanone

6、储存 室温保存，未开封的储存期在 6 个月以上。

6. Storage: Room temperature. The sealed conductive silver paste can be stored for more than 6 months.

7、包装

7. Package

0.5 公斤、1.00 公斤、1.50 公斤 塑料罐包装

0.5 kg, 1 kg, 1.5 kg packed in plastic tank.

三、操作与安全：

### III. Operation and safety:

导电油墨含有有机溶剂，使用时应保持通风良好，以避免过量蒸气吸入体内：

如接触到皮肤，应及时用清水和肥皂清洗。

Conductive inks contain organic solvents and should be well ventilated during use, in order to avoid excessive vapor inhalation into the body. In case of skin contact, wash with water and soap in time.

Above parameters maybe adjusted without notice. If you want to know exact carbon ink used in your [polyester dome](#) ([Polydome](#)), please contact us for more details.

Best Technology Co., Limited

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