

SI-S503

Asahi Silver Ink

Product Description

SI-S503 is specially formulated to meet the performance demands of many different applications, including sensors, RFID antenna, printed lighting, touch screens, touch switches, and printed heaters.

Application

SI-S503 is suitable with many substrate surfaces including PET, glass, and ceramics. It can be applied using screen printing as well as variety of other processes.

Characteristics

Specification	Characteristics	Remarks
Appearance	Silver grayish Cream	Visual
Texture	Soft and Smooth	-
Viscosity	10,000 +/-20% cp #51 @25°C @ speed 20rpm	Brookfield HBDV-II Pro Cone & Plate Viscometer
Curing condition	150°C X 20mins	Circulating heat oven
Sheet Resistivity	< 0.04Ω / sq / mil	-
Total solid content	67%	-
Adhesion	100/100 ASTM Class 5B	Cross cut peel test on PET
Surface Hardness	2H	Pencil Hardness ASTM D3363
Flexibility	< 10%	After 10 times bending

Operating Condition

Gently hand stir with spatula for 1~2 minutes, ensure the ink has reached room temperature before use.

Recommended Thinning Solvents

SI-S503 has been optimized for its best viscosity, but, if thinning is required, user can use Dibasic Ester to do the thinning.

Stencil Cleaning

User is advised to use Dibasic Ester & IPA to clean the stencil and squeegee.

Storage and Shelf Life

Generally the Ag ink can last for 6 months from the date of qualification, if kept tightly capped, under proper condition and temperature of 25°C and below. Do not freeze the paste.

Health and Safety

Do not handle the Ag ink with your bare hand. Use proper tool when handling the ink. If the ink touches the skin, wash thoroughly with soap and water. For more information, please refer to Material Safety Data Sheet.

DISCLAIMER OF LIABILITY

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