

**Metalon<sup>®</sup> HPS-FG36A**  
**Silver Screen Ink**

- Particle:** 1.5 micron diameter silver flake  
**Substrates:** Paper, plastics, glass, metals  
**Features:** Excellent conductivity  
Fine line printing, solderable, flexible, high Ag loading (86wt%)  
Adheres well to a variety of substrates.  
Can be cleaned with water.

**Thermal cure data (typical values):**

Substrate	Cure Temperature (°C)	Cure Time (minutes)	Sheet Resistance (ohm/sq) <sup>1</sup>	Volume Resistivity <sup>2</sup> (ohm-cm)	Sheet Resistivity <sup>3</sup> (ohm/sq/mil)
Melinex ST505	100	60	0.015	2.1E-05	0.008
	120	30	0.013	1.8E-05	0.007
	140	20	0.012	1.8E-05	0.007
Polyimide	175	10	0.010	1.3E-05	0.005
	200	5	0.009	1.2E-05	0.005
	250	5	0.004	6.2E-06	0.002

<sup>1</sup> At 0.08 g/cm<sup>2</sup> dry ink coverage, <sup>2</sup>At 25% porosity, <sup>3</sup> Based on print with 25% porosity

<b>Physical Properties</b>	<b>General Description</b> .....Ag flake ink in butyl carbitol <b>Viscosity (typical values)</b> .....~18,000 cP at 10 sec <sup>-1</sup> , ~5,000 cP at 100 sec <sup>-1</sup> <b>Specific Gravity</b> .....4.4 <b>Flash Point</b> .....99C (butyl carbitol – closed cup) <b>Particle Size (typical values)</b> .....D50 1.5 micron .....D90 4.0 micron <b>Ag Content</b> .....86 wt%
<b>Storage and Printing</b>	<b>Storage</b> .....Room temperature <b>Shelf life</b> .....>6 months <b>Cleaning solvent</b> .....Water <b>Screen mesh material</b> .....Stainless steel or polyester <b>Screen mesh count</b> .....400 to 80 wires per inch
<b>Shipping and Packaging</b>	Standard sample order is 100g or multiples of 100g. Inquire directly for packaging of larger quantities.

[www.novacentrix.com](http://www.novacentrix.com)  
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