Metalon® HPS-FG57B
Silver Screen Ink

**Particle:** 1.5 micron silver flake  
**Substrates:** Paper, plastics, glass, metals, fabrics  
**Features:** Solderable, flexible, excellent water resistance  
Printable on permeable substrates and textiles, resistant to wash cycles  
Adheres well to a variety of substrates.

**Thermal cure data:**

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Cure Temperature (°C)</th>
<th>Cure Time (minutes)</th>
<th>Sheet Resistance (mΩ/sq)(^1)</th>
<th>Weight Resistivity (Ω-g/m²)</th>
<th>Volume Resistivity (µΩ-cm)</th>
<th>Sheet Resistivity (mΩ/sq/mil)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melinex ST505</td>
<td>120</td>
<td>30</td>
<td>23</td>
<td>1.14</td>
<td>27.0</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>140</td>
<td>10</td>
<td>20</td>
<td>1.03</td>
<td>24.3</td>
<td>10</td>
</tr>
<tr>
<td>Polyimide</td>
<td>175</td>
<td>5</td>
<td>16</td>
<td>0.80</td>
<td>17.6</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>200</td>
<td>5</td>
<td>15</td>
<td>0.74</td>
<td>16.4</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>250</td>
<td>5</td>
<td>10</td>
<td>0.48</td>
<td>11.4</td>
<td>4</td>
</tr>
</tbody>
</table>

\(^1\) At 0.05 kg/m² dry ink coverage (150cm²/g wet ink), \(^2\) At 25% porosity, \(^3\) Based on 10 micron print with 25% porosity

**Physical Properties**

- **General Description**
  Ag flake ink in butyl carbitol
- **Viscosity (typical values)**
  105,000cP at 0.1sec\(^{-1}\), 22,000cP at 100 sec\(^{-1}\)
- **Specific Gravity**
  2.6
- **Flash Point**
  Non-flammable
- **Particle Size**
  D50 1.5 micron  
  D90 4.0 micron
- **Ag Content**
  70 wt%  

**Storage and Printing**

- **Storage**
  Room temperature
- **Shelf life**
  >6 months
- **Cleaning solvent**
  Isopropanol
- **Screen mesh material**
  Stainless steel or polyester
- **Screen mesh count**
  400 to 80 wires per inch

**Shipping and Packaging**

Standard sample order is 100g or multiples of 100g. Inquire directly for packaging of larger quantities.