### Technical Information

AgFlake functional conductive pigments are based on our thin borosilicate glass flakes which have an average thickness of 2 microns and are coated with high loadings of silver for improved conductivity and shielding properties.

<table>
<thead>
<tr>
<th>Composition</th>
<th>Ingredients</th>
<th>Composition</th>
<th>By Weight (%)</th>
<th>CAS No.</th>
<th>CI No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Calcium Sodium Borosilicate</td>
<td>Glass</td>
<td>63 - 67</td>
<td>65997-17-3</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Silver</td>
<td>Ag</td>
<td>33 - 37</td>
<td>7440-22-4</td>
<td>77820</td>
</tr>
<tr>
<td></td>
<td>Tin Oxide</td>
<td>SnO₂</td>
<td>&lt;0.5</td>
<td>18282-10-5</td>
<td>77861</td>
</tr>
</tbody>
</table>

Nominal flake thickness (μm):
- Uncoated: 2.0
- Coated: 2.0 - 2.5 (By Malvern Mastersizer 2000S)

Particle Size Diameter (μm):
- Mean: Average 20

Oil Absorption (g/100g):
- Range: 80 - 100

**pH:**
- 7.0 - 11.0 (10% Aqueous Suspension)

**Loss on Drying:**
- <3% max

**Powder volume resistivity @ 15% RH (Ωm):**
- 1.6x10^1

**Trace Elements - Typical:**
- Mercury (Hg): 2 ppm max
- Arsenic (As): 5 ppm max
- Lead (Pb): 5 ppm max
- Cadmium (Cd): 2 ppm max
- Barium (Ba): 50 ppm max
- Antimony (Sb): 2 ppm max
- Chromium (Cr): 10 ppm max
- Nickel (Ni): 5 ppm max

**IEC 62321:2008 ICP-MS**

**Microorganisms:**
- No Pathogens

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This information is given in good faith without guarantee or liability. All values are approximate.

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