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>Calcium Sodium Borosilicate</td>
<td>Glass</td>
<td>63 - 67</td>
<td>65997-17-3</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Silver</td>
<td>Ag</td>
<td>33 - 37</td>
<td>7440-22-4</td>
<td>77820</td>
<td></td>
</tr>
<tr>
<td>Tin Oxide</td>
<td>SnO₂</td>
<td>&lt;0.5</td>
<td>18282-10-5</td>
<td>77861</td>
<td></td>
</tr>
</tbody>
</table>

Nominal flake thickness (㎛):
- Uncoated: 2.0
- Coated: 2.0 - 2.5

Particle Size Diameter (㎛):
- D50: Average 20
- Range: 80 - 100

Oil Absorption (g/100g):
- ASTM D281-12

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
- Total Barium (Ba): 50 ppm max
- Antimony (Sb): 2 ppm max
- Total Chromium (Cr): 15 ppm max
- Nickel (Ni): 5 ppm max

IEC 62321:2008 ICP-MS

Microorganisms:
- 100 CFU/g max
- No Pathogens

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

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