**Amperit® 507**

**Chemical Formula**
WC-Co-Cr 86-10-4

**Chemical Name**
Tungsten Carbide-Cobalt-Chromium 86-10-4

**Description of Product**
Agglomerated, Sintered

**Particle Sizes Available**

<table>
<thead>
<tr>
<th>Product Designation</th>
<th>Amperit® 507.074</th>
<th>45/15 µm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Amperit® 507.059</td>
<td>30/5 µm</td>
</tr>
</tbody>
</table>

**Chemical Characteristics**
(Mass fraction in % [cg/g]; ppm [µg/g])

<table>
<thead>
<tr>
<th></th>
<th>507.074</th>
<th></th>
<th>507.059</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Co</td>
<td>9.0 - 11.0 %</td>
<td>8.5 - 11.0 %</td>
<td>Cr</td>
<td>3.5 - 5.0 %</td>
</tr>
<tr>
<td>Fe</td>
<td>max. 0.3 %</td>
<td>max. 0.3 %</td>
<td>C</td>
<td>5.2 - 6.2 %</td>
</tr>
<tr>
<td>O</td>
<td>max. 0.2 %</td>
<td>max. 0.2 %</td>
<td>W</td>
<td>balance</td>
</tr>
</tbody>
</table>

**Physical Characteristics**

**Particle Size Distribution**

<table>
<thead>
<tr>
<th>Size</th>
<th>507.074</th>
<th>507.059</th>
</tr>
</thead>
<tbody>
<tr>
<td>88 µm</td>
<td>100 %</td>
<td>100 %</td>
</tr>
<tr>
<td>62 µm</td>
<td>100 %</td>
<td>99 %</td>
</tr>
<tr>
<td>44 µm</td>
<td>100 %</td>
<td>99 %</td>
</tr>
</tbody>
</table>

| D 90 % | 47 - 57 µm | 25 - 33 µm |
| D 50 % | 29 - 37 µm | 15 - 21 µm |
| D 10 % | 18 - 22 µm | 9 - 13 µm  |

**Apparent Density**

| 5.0 - 6.0 g/cm³ | acc. ASTM B 212 | 5.0 - 6.0 g/cm³ | acc. ASTM B 417 |

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1) MICROTRAC by Laser Light Diffraction per ASTM C 1070.
SEM pictures

Packaging
Standard Packaging
5 kg in one 2.5 l PE bottle, 6 bottles (30 kg) in one cardboard box.

Storage and Handling
Storage and handling are subject to the rules and regulations in the country of use.

Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)
- Carcinogenicity, Category 1B
- Respiratory sensitization Category 1
- Skin sensitization Category 1
- Eye irritation Category 2
- Reproductive toxicity Category 2
- Short-term (acute) aquatic hazard Category 1
- Long-term (chronic) aquatic hazard Category 2.

Documentation
An inspection document in accordance with EN 10204 is supplied with every shipment.

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2) Secondary Electron Image (SEI).