**Amperit® 588**

**Chemical Formula**  
$\text{Cr}_3\text{C}_2$ - NiCr 75-25

**Chemical Name**  
Chromium Carbide - Nickel-Chromium 75-25

**Description of Product**  
Agglomerated, Sintered

**Particle Sizes Available**  

<table>
<thead>
<tr>
<th>Product Designation</th>
<th>Particle Size Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amperit® 588.074</td>
<td>45/15 µm</td>
</tr>
<tr>
<td>Amperit® 588.059</td>
<td>30/5 µm</td>
</tr>
</tbody>
</table>

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

- Ni  
  18.0 - 22.0 %
- C$_{\text{tot}}$  
  9.0 - 11.0 %
- Fe  
  max. 0.50 %
- O  
  max. 0.60 %
- Cr  
  balance

**Physical Characteristics**

**Particle Size Distribution**

<table>
<thead>
<tr>
<th>Particle Size</th>
<th>588.074</th>
<th>588.059</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 125 µm</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>- 88 µm</td>
<td></td>
<td>min. 99.5</td>
</tr>
<tr>
<td>- 62 µm</td>
<td></td>
<td>min. 99.5</td>
</tr>
<tr>
<td>D 90 %</td>
<td>52 - 62</td>
<td>28 - 38 µm</td>
</tr>
<tr>
<td>D 50 %</td>
<td>31 - 39</td>
<td>17 - 23 µm</td>
</tr>
<tr>
<td>D 10 %</td>
<td>18 - 22</td>
<td>9 - 13 µm</td>
</tr>
<tr>
<td>Apparent Density</td>
<td>2.3 - 3.0 g/cm³</td>
<td>2.5 - 3.2 g/cm³</td>
</tr>
</tbody>
</table>

**Notes:**  
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 2
- Specific target organ toxicity - repeated exposure Category 1
- Skin sensitization Category 1

Documentation

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

Remarks

Always mix well before using.

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