### AMPERIT® 585

**Chemical Formula**  
Cr$_3$C$_2$-NiCr 75-25

**Chemical Name**  
Chromiumcarbide-Nickelchromium 75-25

**Description of Product**  
Blended

**HS Number**  
28499050

**Particle Sizes Available**  
Product Designation
AMPERIT® 585.003  45/5 µm

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

<table>
<thead>
<tr>
<th></th>
<th>Cr$_3$C$_2$</th>
<th>NiCr</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>min. 12.75 %</td>
<td>Cr 18 - 21 %</td>
</tr>
<tr>
<td>Fe</td>
<td>max. 0.7 %</td>
<td>Fe max. 1 %</td>
</tr>
<tr>
<td>Si</td>
<td>max. 0.1 %</td>
<td>Si max. 1.5 %</td>
</tr>
<tr>
<td>Cr</td>
<td>balance</td>
<td>Cr max. 0.25 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ni balance</td>
</tr>
</tbody>
</table>

### Physical Characteristics

**Particle Size Distribution**

<table>
<thead>
<tr>
<th></th>
<th>Cr$_3$C$_2$</th>
<th>NiCr</th>
</tr>
</thead>
<tbody>
<tr>
<td>585.003</td>
<td></td>
<td>585.003</td>
</tr>
<tr>
<td>- 88 µm$^1$</td>
<td>100 %</td>
<td></td>
</tr>
<tr>
<td>- 62 µm$^1$</td>
<td>min. 95 %</td>
<td></td>
</tr>
<tr>
<td>- 5.5 µm$^1$</td>
<td>max. 10 %</td>
<td>max. 10 %</td>
</tr>
<tr>
<td>+45 µm$^2$</td>
<td></td>
<td>max. 7 %</td>
</tr>
</tbody>
</table>

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1) MICROTRAC by Laser Light Diffraction per ASTM C 1070, 2) ROTAP Screening per ASTM B 214.
3) Secondary Electron Image (SEI)

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

Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)
Carcinogenicity Category 2
Specific target organ toxicity - repeated exposure Category 1
Skin sensitisation 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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3) Secondary Electron Image (SEI)