AMPERIT® 251

Chemical Formula  
NiCr 80-20

Chemical Name  
Nickel-Chromium 80-20

Description of Product  
Gas Atomized

Particle Sizes Available  
Product Designation
AMPERIT® 251.002  90 / 45 \( \mu m \)
AMPERIT® 251.001  45 / 22 \( \mu m \)
AMPERIT® 251.051  12 / 5 \( \mu m \)

Chemical Characteristics  
(Mass fraction in % [cg/g]; ppm [\( \mu g/g \)])

<table>
<thead>
<tr>
<th>Element</th>
<th>Mass Fraction (%)</th>
<th>PPM (( \mu g/g ))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cr</td>
<td>18 - 21</td>
<td></td>
</tr>
<tr>
<td>Fe</td>
<td>max. 0.1</td>
<td></td>
</tr>
<tr>
<td>Si</td>
<td>max. 1.0</td>
<td></td>
</tr>
<tr>
<td>Mn</td>
<td>max. 0.05</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>max. 0.05</td>
<td></td>
</tr>
<tr>
<td>Ni</td>
<td>balance</td>
<td></td>
</tr>
</tbody>
</table>

Physical Characteristics  
Particle Size Distribution

<table>
<thead>
<tr>
<th>Particle Size Distribution</th>
<th>251.002</th>
<th>251.001</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ 90 ( \mu m )</td>
<td>max. 5</td>
<td>max. 5</td>
</tr>
<tr>
<td>+ 45 ( \mu m )</td>
<td>max. 10</td>
<td>max. 5</td>
</tr>
<tr>
<td>- 22 ( \mu m )</td>
<td>max. 5</td>
<td>max. 7</td>
</tr>
<tr>
<td>- 10 ( \mu m )</td>
<td>max. 5</td>
<td>0</td>
</tr>
</tbody>
</table>

251.051

D 90 %  
max. 15 \( \mu m \)

D 50 %  
information

D 10 %  
information

1) ROTAP Screening per ASTM B 214, 2) 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)
- Carcinogenicity Category 2
- Specific target organ toxicity – repeated exposure Category 1
- Skin sensitization Category 1
- Chronic aquatic toxicity Category 3

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

Remarks
Always mix well before using.
Other grain sizes on request.

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