**AMPERIT® 422, SICOAT® 2231**  
(Proprietary Powder composition of SIEMENS, DGTLV-511114001 Index H)

**Description of Product**  
Ni-based MCrAlY, Gas Atomized

**Particle Sizes Available**  
Product Designation

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Particle Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMPERIT® 422.002</td>
<td>90/45 µm</td>
<td></td>
</tr>
<tr>
<td>AMPERIT® 422.063</td>
<td>75/45 µm</td>
<td></td>
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<tr>
<td>AMPERIT® 422.001</td>
<td>45/22 µm</td>
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<tr>
<td>AMPERIT® 422.054</td>
<td>45/10 µm</td>
<td></td>
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<tr>
<td>AMPERIT® 422.072</td>
<td>38/10 µm</td>
<td></td>
</tr>
</tbody>
</table>

**Physical Characteristics**

**Particle Size Distribution**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>+ 90 µm max.</th>
<th>+ 75 µm max.</th>
<th>- 45 µm max.</th>
<th>- 45 µm max.</th>
<th>D 10 %</th>
<th>D 50 %</th>
<th>D 90 %</th>
<th>Ma min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>422.002</td>
<td>5 %(^2)</td>
<td>5 %(^2)</td>
<td>10 %(^2)</td>
<td>10 %(^2)</td>
<td>39 - 50 µm(^1)</td>
<td>59 - 80 µm(^1)</td>
<td>84 - 95 µm(^1)</td>
<td>50 µm(^1)</td>
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<td>422.063</td>
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</tbody>
</table>

1) MICROTRAC by Laser Light Diffraction per ASTM B 822, 2) ROTAP Screening per ASTM B 214.
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)
- Acute aquatic toxicity Category 1
- Acute toxicity Category 4
- Carcinogenicity Category 1B
- Carcinogenicity Category 2
- Chronic aquatic toxicity Category 1
- Eye irritation Category 2
- Reproductive toxicity Category 2
- Respiratory sensitisation Category 1
- Skin sensitisation Category 1
- Specific target organ toxicity – repeated exposure Category 1

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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3) Secondary Electron Image (SEI).