Nanostrands

Nickel nanostrands are a new three-dimensionally structured material format that provides higher levels of electrical conductivity with less weight and loading than traditional materials (such as metal flake, spheres, graphite or coated glass). Our CVD process creates three-dimensionally interconnecting and branched nanostrand structures, which are very effective at imparting electrical conductivity and electromagnetic shielding into mixtures and composites at low loading levels. Nanostrand solutions are tailored to fit specific needs, with typical loading ranging from 2% to 20% by volume. Mixtures made with nanostrands exhibit higher conductivity at lower volume fraction of conductor than other conductive materials. Nanostrands are also inherently ferromagnetic and corrosion resistant.

PRODUCT ADVANTAGES

- Three dimensionally branched and interconnecting structure
- High conductivity at low volume loadings
- High purity metal in an easily dispersable format
- Provides a dispersed three dimensional conductive network
- Ferromagnetic and corrosion resistant
- Increased cost savings compared to traditional solutions
- Improved material capabilities when inserted into standard manufacturing processes

Nanostrands

<table>
<thead>
<tr>
<th>Product #</th>
<th>Grade</th>
<th>Bulk Density (g/cm³)</th>
<th>Specific Surface Area (BET) (m²/g)</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>3AX125</td>
<td>Premium Grade</td>
<td>0.1 to 0.14</td>
<td>2 to 4</td>
<td>powder</td>
</tr>
<tr>
<td>3AA150</td>
<td>Standard Grade</td>
<td>0.14 to 0.18</td>
<td>2 to 4</td>
<td>powder</td>
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<tr>
<td>3FF200</td>
<td>Fine Grade</td>
<td>0.18 to 0.23</td>
<td>4 to 5</td>
<td>powder</td>
</tr>
</tbody>
</table>

Inquire about additional grades and formats
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