## Specification Sheet

Carbonyl Iron Nanopowder  
(Fe, Purity: 99.99%. APS: 80-100nm)  
Stock No: NS6130-12-000739, CAS: 7439-89-6

<table>
<thead>
<tr>
<th>Product</th>
<th>Carbonyl Iron Nanopowder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock No</td>
<td>NS6130-12-000739</td>
</tr>
<tr>
<td>CAS</td>
<td>7439-89-6</td>
</tr>
<tr>
<td>Purity</td>
<td>99.99%</td>
</tr>
<tr>
<td>APS</td>
<td>80-100nm</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>Fe</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>55.85g/mol</td>
</tr>
<tr>
<td>Form</td>
<td>Powder</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Density</td>
<td>7.86g/cm³</td>
</tr>
<tr>
<td>Melting Point</td>
<td>1535°C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>2750°C</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>0.804 W/cm/K (298.2 K)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Main Inspect Verifier</td>
<td>Manager QC</td>
</tr>
</tbody>
</table>

**Note:** Product Specification are subject to amendment and may change over time.
Characterization of Carbonyl Iron Nanopowder

Particles Size Analysis