## Specification Sheet

Passivated Iron Core Shell Nanoparticles  
(Fe, Purity: 99.9%, APS: 25 nm, Partially Passivated, Metal basis)  
Stock No: NS6130-01-134, CAS: 7439-89-6

<table>
<thead>
<tr>
<th>Product</th>
<th>Passivated Iron Core Shell Nanoparticles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock No</td>
<td>NS6130-01-134</td>
</tr>
<tr>
<td>CAS</td>
<td>7439-89-6</td>
</tr>
<tr>
<td>Purity</td>
<td>99.9%</td>
</tr>
<tr>
<td>APS</td>
<td>25 nm</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>Fe</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>55.845 g/mol</td>
</tr>
<tr>
<td>Form</td>
<td>Powder</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Density</td>
<td>7.874 g/cm³</td>
</tr>
<tr>
<td>Melting Point</td>
<td>1538 °C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>2862 °C</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 Passivated Iron Core Shell Nanoparticles

SEM - Iron Nanoparticles

Particles Size Analysis - Fe Nanopowder