Iron is a chemical element with the symbol of Fe and its surfaces are mirror-like silvery-gray color. However, iron readily reacts with both oxygen and water to give brown to black hydrated iron oxides which are commonly known as rust. Iron magnetism changes from para to ferromagnetic: the spins of the two unpaired electrons in each atom generally align with the spins of its neighbors and then it creates magnetic field. Its low cost and high strength often make it remarkable material to withstand stress or transmit forces, for instance the construction of machinery and machine tools.

- Used in civil engineering like reinforced concrete, girders
- In industrial machinery
- In transportation equipment
- In magnets
- In fabricated metal products
- In instruments
- In toys and sport goods

Iron Micropowder
Stock No: NS6130-05-534
CAS: 7439-89-6
Color: Black Gray
Form: Powder

Iron is quite soft; it is most commonly combined with alloying elements to produce steel. Iron chloride utilize in sewage treatment and water purification. It is also used as a coloring agent in paints, dyeing the cloth, as an etchant for copper in the fabrication of printed circuit boards. It is also employed as an additive in animal feed and can also be dissolved in alcohol to form tincture of iron, which is used as a medicine to stop bleeding in canaries. Rich iron sources are red meat, lentils, beans, tofu, chickpeas, vegetables, and oysters.

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**Additional Powder Characteristics**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-05-534</td>
<td>99%</td>
<td>40-50μm</td>
</tr>
</tbody>
</table>

**Technical Specification**

<table>
<thead>
<tr>
<th>Molecular Formula</th>
<th>Molecular Weight</th>
<th>Density</th>
<th>Melting Point</th>
<th>Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fe</td>
<td>55.85 g/mol</td>
<td>7.87 g/cm³</td>
<td>1538 °C</td>
<td>2862 °C</td>
</tr>
</tbody>
</table>

**Properties**

- Chemical Symbol: Fe
- CAS No.: 7439-89-6

**Chemical Composition**

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron Micropowder</td>
<td>Fe: 99 %, Other Metal: 8000ppm</td>
</tr>
</tbody>
</table>

**Ordering Information and Stock Availability**

- Product: Iron Micropowder
- Distribution: Global
- Stock Availability: Available
- Packing Sizes: 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

**Handling Recommendations**

- Store in the original container in a dry location.
- Tumble contents prior to use to prevent segregation.
- Open containers should be stored in a drying oven to prevent moisture pickup.

**Safety Recommendations**

- Download MSDS/SDS NS6130-05-534
- SDS are available from the Nanoshel Website at [https://www.nanoshel.com/product/iron-micropowder](https://www.nanoshel.com/product/iron-micropowder)