Iron is a chemical element with the symbol Fe and its surfaces are mirror-like silvery-gray color. Pure iron is quite soft; it is most commonly combined with alloying elements to produce steel. Iron chloride utilize in sewage treatment and water purification. 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, automobiles, ship hulls and concrete reinforcing bars. 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. This is utilized to produce sintered components, soft magnetic components, brazing, iron fortification, printing, welding, and brazing, surface coating, friction products chemistry, and polymer filtrations.
Additional Powder Characteristics

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-05-537</td>
<td>99%</td>
<td>60-70μm</td>
</tr>
</tbody>
</table>

Technical Specification

<table>
<thead>
<tr>
<th>Molecular Formula</th>
<th>Molecular Weight</th>
<th>Density</th>
<th>Melting Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fe</td>
<td>55.85 g/mol</td>
<td>3.99 g/cm³</td>
<td>1535 °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>Soft Iron Powder</td>
<td>Fe: 99 %, Other Metal: 8000ppm</td>
</tr>
</tbody>
</table>

Ordering Information and Stock Availability

✓ Product: Soft Iron Powder
✓ 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 NS6130-05-537
SDS are available from the Nanoshel Website at https://www.nanoshel.com/product/soft-iron-powder

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