MANGANESE

Product: Manganese Powder
Stock No: NS6130-05-556
CAS: 7439-96-5
Color: Silvery
Form: Powder

Manganese is a pinkish-gray, chemically active element and it is a hard metal. It is also very brittle. It is hard to melt, however easily oxidized. Pure manganese is reactive, and it will burn in oxygen when it is in powder form. It is also reacts with water (it rusts like iron) and dissolves in dilute acids. Manganese is highly utilized in iron and steel production. Manganese is a key component of low-cost stainless steel formulations and certain widely employed aluminum alloys. Manganese is employed to decolorize glass and make violet colored glass. Other compounds of manganese such as Manganese oxide (MnO) and manganese carbonate (MnCO₃) have the attractive applications: the first utilized in fertilizers and ceramics, the second is the starting material for making other manganese compounds. Manganese (IV) oxide is applied as a rubber additive, as a catalyst and to decolorize glass that is colored green by iron impurities. Manganese sulfate is employed to make a fungicide. Oxide of manganese (II) is a powerful oxidizing agent and is utilized in quantitative analysis.

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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>NS6130-05-556</td>
<td>99%</td>
<td>40-50μm</td>
</tr>
</tbody>
</table>

**Technical Specification**

<table>
<thead>
<tr>
<th>Density</th>
<th>Molecular Weight</th>
<th>Density</th>
<th>Melting Point</th>
<th>Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mn</td>
<td>54.9981 g/mol</td>
<td>7.21 g/cm³</td>
<td>1244 ºC</td>
<td>1962 ºC</td>
</tr>
</tbody>
</table>

**Properties**

- Chemical Symbol: Mn
- CAS No.: 7440-22-5

**Chemical Composition**

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
<th>Other Metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manganese Powder</td>
<td>99%</td>
<td>9000ppm</td>
</tr>
</tbody>
</table>

**Ordering Information and Stock Availability**

- Product: Manganese 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 NS6130-05-556 are available from the Nanoshel Website at https://www.nanoshel.com/product/manganese-powder

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