Niobium Micropowder

Stock No: NS6130-05-562
CAS: 7440-03-1
Color: Gray
Form: Powder

Niobium is a rare, soft, ductile, malleable, gray-white metal. It has a body-centered cubic crystalline structure. Its physical and chemical properties resemble tantalum. It must be placed in a protective atmosphere when processed at even moderate temperatures due to it tends to react with oxygen, carbon, the halogens, nitrogen and sulphur. Niobium is utilized for the manufacturing of high-temperature-resistant alloys and special stainless steels. Small amounts of niobium make greater strength to other metals, especially those that are exposed to low temperatures. Niobium carbide is utilized in cutting tools. It is also employed in stainless steel alloys for nuclear reactors, jets, missiles, pipelines, super magnets, cutting tools, and welding rods.

Applications:

- Superconducting Magnets
- Nickel-based Super Alloys
- Jewellery
- Surgical Implants
- Cutting Tools
- High-temperature-resistant Alloys

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9779238252
**Additional Powder Characteristics**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-05-562</td>
<td>99%</td>
<td>40-50 µm</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>Nb</td>
<td>92.91 g/mol</td>
<td>8.57 g/cm³</td>
<td>2468 °C</td>
<td>4742 °C</td>
</tr>
</tbody>
</table>

**Properties**

- Chemical Symbol: Nb
- CAS No.: 7440-03-1

**Chemical Composition**

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Niobium Micropowder</td>
<td>99 %</td>
</tr>
<tr>
<td>Other Metal</td>
<td>9500ppm</td>
</tr>
</tbody>
</table>

**Ordering Information and Stock Availability**

- Product: Niobium 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 NS6130-05-562 are available from the Nanoshel Website at https://www.nanoshel.com/product/niobium-micropowder

www.nanoshel.com | sales@nanoshel.com
Tel: +91 9779550077, 9779238252