Vanadium is a soft, rare, ductile gray-white element and it is combined with certain minerals. It is utilized mainly to produce certain alloys. Vanadium resists corrosion because of a protective film of oxide on the surface. Pure vanadium is a bright white metal and it has good corrosion resistance to alkalis, sulfuric and hydrochloric acid, and saltwater. Most of the vanadium formed is employed as ferrovanadium or as a steel additive. Vanadium mixed with aluminium in titanium alloys is applied in jet engines and high-speed airframes. It is also mixed with steel alloys and these alloys are utilized in axles, crankshafts, gears and other critical components. Vanadium alloys are also used in nuclear reactors due to vanadium has low neutron-adsorption abilities. It does not deform in creeping under high temperatures.

**Applications**

- Nuclear Reactors
- Vanadium Is Utilized In Glasses To Block Infrared Radiation
- Used In Ceramics
- To Produce Superconductive Magnets
- In Jet Engines And For High-speed Aircrafts
- Vanadium Steel Alloys Are Used In Gears, Axles And Crankshafts
**Additional Powder Characteristics**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-12-000153</td>
<td>99.9%</td>
<td>20-60μm</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>V</td>
<td>50.94 g/mol</td>
<td>6.11 g/cm³</td>
<td>1890 °C</td>
<td>3380 °C</td>
</tr>
</tbody>
</table>

**Properties**

- Chemical Symbol: V
- CAS No.: 7440-62-2

**Chemical Composition**

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vanadium Micro Powder</td>
<td>99.9 %</td>
</tr>
<tr>
<td>Other Metal</td>
<td>800ppm</td>
</tr>
</tbody>
</table>

**Ordering Information and Stock Availability**

- Product: Vanadium Micro 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 NS6130-12-000153 are available from the Nanoshel Website at https://www.nanoshel.com/product/vanadium-micro-powder

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