TITANIUM POWDER

QUICK FACTS

Product: Titanium Powder
Stock No: NS6130-05-559
CAS: 7440-32-6
Color: Gray
Form: Powder

Titanium’s chemical behavior manifests many similarities with that of silica and zirconium, as an element belonging to the first transition group. Titanium is a white-silvery-metallic color transition metal. Titanium is strong, lustrous, and corrosion-resistant and pure titanium is not soluble in water but is soluble in concentrated acids. Titanium forms a passive however protective oxide coating (leading to corrosion-resistance) when exposed to elevated temperatures in air. While at room temperatures it endures tarnishing. The titanium dioxide is extensively employed as a white pigment in outside paintings because of some properties such as for being chemically inert, for its great coating power, its opacity to UV light damage and its autocleaning capacity. It is also utilized in the medical industry such as it is used to make hip and knee replacements, pace-makers, bone-plates and screws and cranial plates for skull fractures.

APPLICATIONS

- Knee Replacements
- Pace-makers
- Bone-plates And Screws
- Cranial Plates For Skull Fractures
- Paints
- Aircraft
- Pipes For Power Plants
- Spacecraft Armor Plating

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ISO 9001:2015 CERTIFIED COMPANY
**Additional Powder Characteristics**

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-05-559</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>Melting Point</th>
<th>Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ti</td>
<td>47.867 g/mol</td>
<td>1668 °C</td>
<td>3287 °C</td>
</tr>
</tbody>
</table>

**Properties**

- Chemical Symbol: Ti
- CAS No.: 7440-32-6

**Chemical Composition**

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

**Ordering Information and Stock Availability**

- Product: Titanium 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 NS6130-05-559 are available from the Nanoshel Website at https://www.nanoshel.com/product/titanium-powder

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