ZIRCONIUM
POWDER

QUICK FACTS

Product : Zirconium Powder
Stock No : NS6130-05-544
CAS : 7440-67-7
Color : White
Form : Powder

Zirconium is a silver-gray transition metal. It is a type of element that is malleable and ductile. It is easily forms stable compounds. Zirconium powder is also highly resistant to corrosion. Zirconium and its alloys have been utilized for centuries in a wide variety of ways. It is commonly applied in corrosive environments. It is employed in alloys such as zircaloy, which is used in nuclear applications since it does not readily absorb neutrons. This powder is employed in catalytic converters, percussion caps and furnace bricks. The major uses of zircon (ZrSiO 4 ) are refractories, foundry sands and ceramic opacification. Zircon is also marketed as a natural gemstone applied in jewelry. This metal powder also has many other uses, among them in photographic flashbulbs and surgical instruments. It is also used to make the glass for television and in the removal of residual gases from electronic vacuum tubes. It is also employed as a hardening agent in alloys, especially steel. The material has optical properties thus it is also employed more broadly in stereo television glasses, light control devices, and other light-sensitive devices.

APLICATIONS

- Refractories
- Foundry sands
- Jewelry

- Photographic flashbulbs
- Surgical instruments

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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>NS6130-05-544</td>
<td>99%</td>
<td>40-50μm</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>Zr</td>
<td>91.242 g/mol</td>
<td>6.5 g/cm³</td>
<td>1852 °C</td>
<td>3580 °C</td>
</tr>
</tbody>
</table>

**Properties**
- **Chemical Symbol:** Zr
- **CAS No.:** 7440-67-7

**Chemical Composition**

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zirconium Powder</td>
<td>Zr 99 %, Other Metal 8000ppm</td>
</tr>
</tbody>
</table>

**Ordering Information and Stock Availability**
- **Product:** Zirconium 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 NS6130-05-544

SDS are available from the Nanoshel Website at

https://www.nanoshel.com/product/zirconium-powder

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www.nanoshel.com | sales@nanoshel.com

Tel: +91 9779550077, 9779239252

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