Zirconium is a silver-gray transition metal. It is a type of element that is malleable and ductile. It 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 (ZrSiO₄) 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.

APPLICATONS

- 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>NS6130-12-001372</td>
<td>99.9%</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>Zr</td>
<td>91.22 g/mol</td>
<td>6.5 g/cm³</td>
<td>1852 °C</td>
<td>4377 °C</td>
</tr>
</tbody>
</table>

Properties

✓ Chemical Formula: Zr
✓ CAS No.: 7440-67-7

Chemical Composition

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zr</td>
<td>Other Metal</td>
</tr>
<tr>
<td>Spherical Zirconium Powder</td>
<td>99.9%</td>
</tr>
</tbody>
</table>

Ordering Information and Stock Availability

✓ Product: Spherical 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 NS6130-12-001372 are available from the Nanoshel Website at https://www.nanoshel.com/product/spherical-zirconium-powder

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