PALLADIUM Powder

QUICK FACTS

Product : Palladium Powder
Stock No : NS6130-12-000914
CAS : 7440-05-3
Color : Black/Gray
Form : Powder

Palladium, together with ruthenium, rhodium, osmium iridium and platinum form a group of elements referred to as the platinum group metals (PGM). It is a lustrous silver-white metal and has a face-centered cubic crystalline structure; at ordinary temperatures. Moreover, it is strongly resistant to corrosion in air and to the action of acids and it is attacked by hot acids. It easily dissolves in aqua regia. It produces many compounds and several complex salts. Palladium has a great capability to absorb hydrogen (up to 900 times its own volume). It exhibits corrosion resistance property. Because of that property, a major use of palladium is in alloys used in low voltage electrical contacts. When it is finely divided, palladium forms a good catalyst and is employed to speed up hydrogenation and dehydrogenation reactions. Palladium is utilized extensively in jewelry-making in certain alloys called “white gold.”

APPLICATIONS

✓ Catalytic Converters For Automobiles
✓ Jewelry
✓ Dentistry
✓ Watch Making
✓ In Making Surgical Instruments
✓ Used To Purify Hydrogen

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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>NS6130-12-000914</td>
<td>99.9%</td>
<td>40-60μm</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>Pd</td>
<td>106.42 g/mol</td>
<td>12.02 g/cm³</td>
<td>1554 °C</td>
<td>2970 °C</td>
</tr>
</tbody>
</table>

Properties

- Chemical Formula: Pd
- CAS No.: 7440-05-3

Chemical Composition

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palladium Powder</td>
<td>&gt;99.9 %</td>
</tr>
</tbody>
</table>

Ordering Information and Stock Availability

- Product: Palladium 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 NS6130-12-000914
- SDS are available from the Nanoshel Website at https://www.nanoshel.com/product/palladium-powder

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