Osmium is a lustrous, silvery metal, one of the so-called platinum groups of metals. It is the densest metal known, although only by the narrowest margins. Osmium is unaffected by water and acids, however it dissolves with molten alkalis. Osmium powder reacts slowly with the oxygen of the air and produces detectable amounts of osmium tetroxide vapour. This metal powder is employed in a few alloys and in industry as a catalyst. Early, it was to be encountered in the nibs of high-quality fountain pens, compass needles, long-life gramophone needles and clock bearings, because of its extreme hardness and corrosion resistance. A hard alloy of osmium and iridium has been utilized for tips of fountain pens and phonograph needles, and osmium tetroxide is applied in certain organic syntheses.

**Applications**

- Fountain Pen Tips
- Instrument Pivots
- Needles And Electrical Contacts
- Used In The Chemical Industry As A Catalyst

**Quick Facts**

- **Product**: Osmium Micro Powder
- **Stock No**: NS6130-12-001013
- **CAS**: 7440-04-2
- **Color**: Gray
- **Form**: Powder

**Intensity**

<table>
<thead>
<tr>
<th>APS (μm)</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intensity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Call Now**

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9779238252
Additional Powder Characteristics

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-12-001013</td>
<td>99.9%</td>
<td>40-60μm</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>Os</td>
<td>190.23g/mol</td>
<td>22.59g/cm³</td>
<td>3033°C</td>
<td>5012°C</td>
</tr>
</tbody>
</table>

Properties

- Chemical Formula: Os
- CAS No.: 7440-04-2

Chemical Composition

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Osmium Micro Powder</td>
<td>99.9%</td>
</tr>
<tr>
<td>Other Metal</td>
<td>950ppm</td>
</tr>
</tbody>
</table>

Ordering Information and Stock Availability

- Product: Osmium 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 NS6130-12-001013 from the Nanoshel website at https://www.nanoshel.com/product/osmium-micro-powder

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