CADMIUM

POWDER

QUICK FACTS

Product: Cadmium Powder
Stock No: NS6130-12-000422
CAS: 1306-19-0
Color: N/A
Form: Powder

Cadmium is a lustrous, silver-white, ductile and very malleable metal. The metal is soft and its surface has a bluish ting. So it is very soft and easily cut with a knife, however it tarnishes in air. It is soluble in acids while not in alkalis. It is similar in many respects to zinc but it produces more complex compounds. Cadmium is utilized in Ni-Cd batteries and cadmium sulfide is employed as a yellow pigment. Moreover, cadmium selenide is applied as a red pigment, often called cadmium red. Cadmium is used mainly for coatings and plating. It is also employed as stabilizers for plastics. Cadmium has been employed particularly to electroplate steel where a film of cadmium provides complete protection against the sea. Cadmium has the capability to absorb neutrons, so it is employed as a barrier to control nuclear fission.

APPLICATIONS

✓ Ni-cd Batteries
✓ Coatings And Plating
✓ Stabilizers For Plastics
✓ Solar Panels
✓ To Absorbs Neutrons In Nuclear Fission

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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>NS6130-12-000422</td>
<td>&gt;99%</td>
<td>60-80μm</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>Cd</td>
<td>112.41 g/mol</td>
<td>8.65g/cm³</td>
<td>320.9 °C</td>
<td>765 °C</td>
</tr>
</tbody>
</table>

### Properties

- Chemical Formula: Cd
- CAS No.: 1306-19-0

### Chemical Composition

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium Powder</td>
<td>Cd: &gt;99%, Other Metal:</td>
</tr>
</tbody>
</table>

### Ordering Information and Stock Availability

- Product: Cadmium 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 NS6130-12-000422
- SDS are available from the Nanoshel
- Website at https://www.nanoshel.com/product/cadmium-powder