COPPER POWDER

QUICK FACTS

Product : Copper Powder
Stock No : NS6130-05-542
CAS : 7440-50-8
Color : Reddish
Form : Powder

Copper powder is available in reddish color and it exhibits a face-centered cubic crystalline structure. It reflects red and orange light however it absorbs other frequencies in the visible spectrum, because of its band structure, so it as a nice reddish color. It is malleable and ductile it is an extremely good conductor of both heat and electricity. It is softer than zinc and also it can be polished to a bright finish. Copper has low chemical reactivity and in the presence of moist air it slowly forms a greenish surface film called patina; this coating protects the metal from further attack. Most copper is utilized for electrical equipment, construction, for instance roofing and plumbing; industrial machinery, for example heat exchangers and alloys. Copper is utilized in decorative art, both in its elemental metal form and in compounds as pigments. Compounds of this metal powder are employed as bacteriostatic agents, wood preservatives and fungicides. Copper is used in buildings, commonly for roofing. Copper's superior conductivity improves the efficiency of electrical motors.

APPLICATIIONS

- Electrical equipment
- Decorative art
- Bacteriostatic agents
- Buildings
- Wood preservatives

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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>NS6130-05-542</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>Cu</td>
<td>63.55 g/mol</td>
<td>8.94 g/cm³</td>
<td>1083 °C</td>
<td>2595 °C</td>
</tr>
</tbody>
</table>

**Properties**

- Chemical Symbol: Cu
- CAS No.: 7440-50-8

**Chemical Composition**

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

**Ordering Information and Stock Availability**

- Product: Copper 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 NS6130-05-542
- SDS are available from the Nanoshel Website at https://www.nanoshel.com/product/copper-powder

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