TIN POWDER

QUICK FACTS

Product: Tin Powder
Stock No: NS6130-05-550
CAS: 7440-31-5
Color: Black Gray
Form: Powder

Tin is a metallic, soft, pliable, silvery-white metal element and it belongs to group 14 of the periodic table. Tin is not easily oxidized and resists corrosion due to it is protected by an oxide film. Tin resists corrosion from soft tap water and distilled sea. It can be attacked by strong acids, alkalis and acid salts. Tin is a siderophile metallic element forming distinct minerals, involving cassiterite SnO2 and the rarer stannite Cu2FeSnS4, however can also be present as an accessory element in biotite, amphibole, muscovite, sphene, and rutil. Tin has many uses. It takes a high polish and is utilized to coat other metals to prevent corrosion, such as in tin cans, which are produced of tin-coated steel. Alloys of tin are important, for instance soft solder, pewter, bronze and phosphor bronze. A niobium-tin alloy is utilized for superconducting magnets. Most window glass is formed by floating molten glass on molten tin to produce a flat surface. Tin salts sprayed onto glass are applied to produce electrically conductive coatings. The most important tin salt applied is tin (II) chloride, which is utilized as a reducing agent. Tin compounds have been employed as anti-fouling paint for ships and boats, to prevent barnacles.

APPLICATONS

- Coating To Prevent Corrosion
- Superconducting Magnets
- Electrically Conductive Coatings
- Anti-fouling Paint For Ships And Boats
- Utilized As A Reducing Agent

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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>NS6130-05-550</td>
<td>99%</td>
<td>50 μm</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>sn</td>
<td>118.71 g/mol</td>
<td>7.31 g/cm³</td>
<td>231 °C</td>
<td>2602 °C</td>
</tr>
</tbody>
</table>

Properties

- Chemical Symbol: Sn
- CAS No.: 7440-31-5

Chemical Composition

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

Ordering Information and Stock Availability

- Product: Tin 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 NS6130-05-550
- SDS are available from the Nanoshel Website at https://www.nanoshel.com/product/tin-powder

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