Silicon is the most abundant in the Earth’s crust and it is an electropositive element. It’s a metalloid and has a marked metallic luster. It is very brittle and usually tetravalent in its compounds, although sometimes it is bivalent and it’s purely electropositive in its chemical behavior. Moreover, pentacoordinated and hexacoordinated silicon compounds also exist. Elemental raw silicon and its intermetallic compounds are utilized as alloy integrals to provide more resistance to the aluminium, magnesium, copper and other metals. Silicon is an intrinsic semiconductor in its purest form, even though the intensity of its semiconduction is highly inclined by introducing small quantities of impurities. Silicon exhibits similar chemical behavior as metals. Silicon is the main component of glass, cement, ceramics, most semiconductor devices, and silicones. Silicon is also an indispensible constituent of some steels and a major ingredient in bricks. It is a refractory material employed in manufacturing enamels and pottery.

APPLICATONS

- Glass
- Cement
- Ceramics
- Most Semiconductor Devices
- Bricks
- Enamels And Pottery

ISO 9001:2015 CERTIFIED COMPANY

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Additional Powder Characteristics

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-05-558</td>
<td>99.9%</td>
<td>40-50 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>Si</td>
<td>28.085 g/mol</td>
<td>2.33 g/cm³</td>
<td>1414 °C</td>
<td>2900 °C</td>
</tr>
</tbody>
</table>

Properties

- Chemical Symbol: Si
- CAS No.: 7440-21-3

Chemical Composition

<table>
<thead>
<tr>
<th>Product</th>
<th>Weight Percent (nominal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Powder</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Si</td>
</tr>
<tr>
<td></td>
<td>99.9%</td>
</tr>
</tbody>
</table>

Ordering Information and Stock Availability

- Product: Silicon 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 NS6130-05-558 are available from the Nanoshel
Website at https://www.nanoshel.com/product/silicon-powder