

# Silicon

High Purity Metal

## Characteristics

- ✓ Corrosion-resistant
- ✓ Heat-resistant
- ✓ Electrically conductive
- ✓ Good Tensile Strength
- ✓ Malleability

## Quick Facts

Molecular Formula	:	Si
Molecular Weight	:	28.09 g/mol
Density	:	2.33 g/cm <sup>3</sup>
Melting Point	:	1410 °C
Boiling Point	:	2355 °C
Thermal Conductivity	:	1.49W/(mK)
Electrical Resistivity	:	3-4μΩcm (at 20 °C)
Thermal Expansion	:	2.6μm/(mK) (at 25 °C)
Young's Modulus	:	51-80GPa
Specific Heat	:	0.064Cal/g/K @ 25 °C

**Purity : 99.9%**

**Silicon** is a chemical element with the symbol Si and atomic number 14. Silicon is the principal component of glass, cement, ceramics, most semiconductor devices, and silicones, the latter a plastic substance often confused with silicon. Silicon is also an important constituent of some steels and a major ingredient in bricks. It is a refractory material used in making enamels and pottery.

## Benefits

- ✓ Used in waterproofing treatments
- ✓ Molding compounds, mold-release agents
- ✓ High temperature greases and waxes
- ✓ Used to make dynamo and transformer plates
- ✓ Engine blocks, cylinder heads and machine tools
- ✓ Silicon is used in the production of fire bricks.
- ✓ Several waterproofing systems employ silicones as a component.
- ✓ Silicon is used in many mold release agents and moulding compounds.
- ✓ It is also a component of ferrosilicon – an alloy widely used in the steel industry.

High Purity  
**Silicon**  
Available in:

**Pieces | Rods | Shots | Chips | Pellets | Wires | Ingots | Bars | Granules**



202ICE4588C

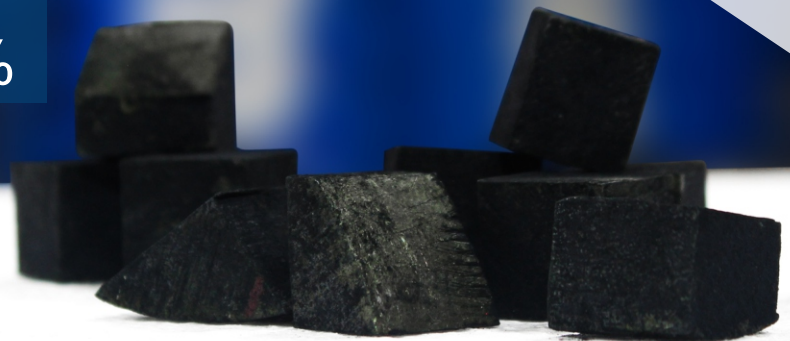


19ZAZG01274G



202ICE4588M

ISO 9001:2015  
CERTIFIED COMPANY



14  
**Si**  
28.086

www.nanoshel.com | sales@nanoshel.com

### INTELLIGENT MATERIALS PVT LTD

Derabassi  
Punjab (140507)  
INDIA

+91 9779 550077, 9779238252

### NANOSHEL UK LIMITED

Chapel House,  
Chapel St Cheshire,  
CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

### NANOSHEL LLC

3422 Old Capitol Suit  
1305 Wilmington DE - 19808  
United States

+1 646 470 4911

