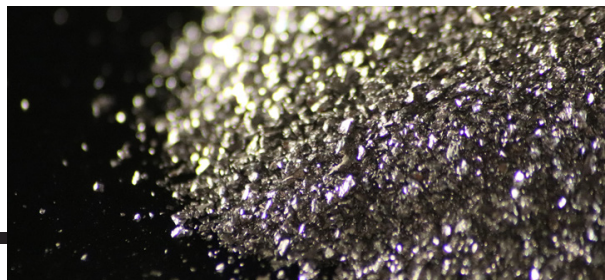




# GNPGraystar

Specialty Materials

AN ISO 9001 CERTIFIED COMPANY



## TECHNICAL DATA SHEET

### Silicon Metal

#### Typical Chemistry

Silicon (Si)	> 98.0 %
Iron (Fe)	0.35 %
Aluminum (Al)	0.10 %
Calcium (Ca)	0.03 %

#### Physical Characteristics

Melting Point:	1500°C
Density:	7650 kg/m <sup>3</sup>
Resistivity:	$47.2 \times 10^{-8} \Omega \cdot m$
Particle Size:	< 100 nm (TEM)

#### Available Sizes:

Sizes are available from coarse grits to fine powders.  
Customer specific sizes available upon request.

#### Description:

**GNPGraystar's** Silicon Metal powder is also called industrial silicon powder. It is silver gray or dark gray powder with a metallic luster. With high melting point, good heat resistance, high resistivity and superior oxidation resistance, it's called "industrial glutamate", which is an essential, basic, raw material in hi-tech industry.

#### Applications:

**GNPGraystar's** Silicon Metal is used in creating reaction-bonded silicon carbide parts, reaction-bonded boron carbide parts, recrystallized silicon carbide parts, aluminum alloys, silicone chemicals, polycrystalline silicon for solar cells, and semi-conductor grade silicon, and many more industrial applications.

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