

■ **Introduction:**

Silicon nitride powder for steel smelting refractory is a kind of fine powder composed of silicon nitride particles, with high hardness, high wear resistance, high corrosion resistance, high temperature resistance, high thermal conductivity and other excellent properties, is widely used in refractory materials, ceramics, electronic materials, chemical materials, high temperature structural materials and other fields. Its main applications include the preparation of silicon nitride ceramics, silicon nitride fiber, silicon nitride film, high temperature structural materials, high temperature stoves, etc.

■ **Technical data sheet:**

Si3N4%	N%	Ca%	Al%	Fe%	C%	O%
90	36	≤0.3	≤0.4	≤0.5	≤1	≤2
95	38	≤0.4	≤0.3	≤0.4	≤1	≤2
99	39.5	≤0.1	≤0.1	≤0.1	≤0.5	

■ **Advantages:**

- 1.High hardness: the hardness of Silicon nitride powder is more than 10 times higher than the traditional abrasive, which can be used for the processing of high hardness materials.
- 2.High chemical stability: Silicon nitride powder for steel smelting has high stability under the action of most chemical substances and can be used for chemical processing.
- 3.High thermal conductivity: The thermal conductivity of Silicon nitride powder for refractory is very good, can be used for the processing of high thermal conductivity materials.
- 4.Environmental protection and pollution-free: The production process of Si3N4 Silicon nitride powder will not produce harmful gas and waste water, it is a kind of environmental protection and pollution-free new material.

