

## hardness sintered silicon carbide wear plate lining

### ■ Introduction:

Hardness sintered silicon carbide wear plate lining is a kind of high performance ceramic material, which is made of high purity silicon carbide powder sintered at high temperature. Sintered silicon carbide lining has extremely high hardness and wear resistance, suitable for all kinds of harsh working environment. Hardness sintered silicon carbide wear plate lining is widely used in mining, steel, cement, electric power, petroleum, chemical, paper and other industries, used to protect the working surface of equipment from wear and corrosion.

Hardness silicon carbide plate can be used as wear plate, wear tube, wear pad, wear ring, etc., effectively extend the service life of equipment and reduce the number of maintenance. Hardness silicon carbide plate can protect equipment from wear and corrosion in harsh working environment, improve the production efficiency and reliability of equipment.

### ■ Technical data sheet:

Item	Unit	Data
Density	G/cm <sup>3</sup>	>3.14
Open porosity	%	<0.1
Bending strength	MPa	400-500
Viker Hardness	Kg/mm <sup>2</sup>	2800
Rockwell Hardness	HRA	92
Acid-proof (98% H <sub>2</sub> SO <sub>4</sub> at 100C)	Mg/cm <sup>2</sup> .Y	0.98
Grain Size	nm	<10
Fracture toughness	Mpa	4-5
Silicon Carbide Content	%	>99

### ■ Advantages:

1. Sintered silicon carbide lining has high hardness and wear resistance, can effectively protect the equipment from wear and corrosion.
2. Non - pressure sintered silicon carbide tiles has excellent impact resistance and corrosion resistance, suitable for all kinds of harsh working environment.
3. Hardness silicon carbide plate has excellent high temperature resistance, can work in high temperature environment.
4. wear resistant ceramic plate is easy to work and install, can be cut, drilled and riveted as required.

