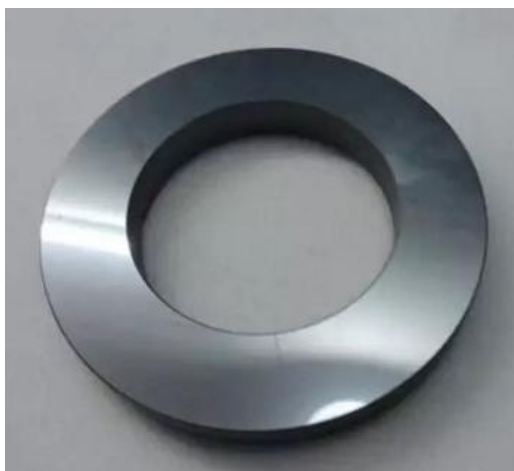


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Pressureless Silicon Carbide Ceramic Parts



Introduction: pressureless silicon carbide ceramic products are sintered in a 2100 °C vacuum sintering furnace. The products have strong corrosion resistance, wear resistance and high temperature stability. In addition, after adding carbon, they increase self lubrication and reduce friction coefficient. They are widely used in new energy, chemical industry, marine and mechanical seals, impellers, etc.

1,Technical index of pressureless silicon carbide ceramic products

Item	Unit	Value
Main composition		SSiC+C
B.D	g/cm ³	2.95-3.05
Hardness	HV0.5	2000-2400
Apparent porosity	%	<0.2
Compression strength	Mpa	2000 -2800
Flexural strength	Mpa	200-280
Modulus of elasticity	Gpa	300-350
Thermal conductivity	25°C W/m.k	> 160
Coefficient of thermal expansion	10 ⁻⁶ /k,800°C	<3.0
Working temperature	°C	1500

2,Product description

Pressureless sintered silicon carbide products are compact SiC ceramic products made of pressureless sintered submicron SiC powder. They contain no free silicon and have

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fine grains. They are sintered in a 2100 °C vacuum sintering furnace. The product has excellent mechanical properties, high hardness, high strength, high acid and alkali resistance, high temperature resistance, corrosion resistance and other characteristics. After adding carbon graphite, it can improve the lubricity and reduce the friction coefficient. The average grain size in the product is 5-10um. Pressureless silicon carbide ceramic products produced by 3D technology include mechanical seal ring, nozzle, hole punch accessories, cylinder block, impeller and other special-shaped parts, which are widely used in petrochemical, electric power, papermaking, light industry, automobile and sewage treatment and other industrial fields

3. Main characteristics of pressureless sintered silicon carbide products

- 1) 3D printing technology with high dimensional accuracy
- 2) High density, extremely low apparent porosity, $< 0.2\%$
- 3) High hardness, high strength and good wear resistance
- 4) High acid-base resistance and corrosion resistance
- 5) The product grain is fine and evenly distributed, with an average of 5-10um, and the structure is dense and stable

4. Main uses of the product

As pressureless sintered silicon carbide products have irreplaceable properties of other products, they are often processed into seals, impellers, shafts, engine accessories and other products, which are widely used in petrochemical, store, shipbuilding, papermaking and other industrial fields

5, Good feedback of product use effect, the products have been exported to South Korea, Japan, Pakistan

6, We are a professional supplier, who can provide customers with free product technology, use and other issues

Do you want to find a professional supplier of Pressureless Silicon Carbide Ceramic Parts?

Do you want to find a stable and credible supplier?

Then please contact with us

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