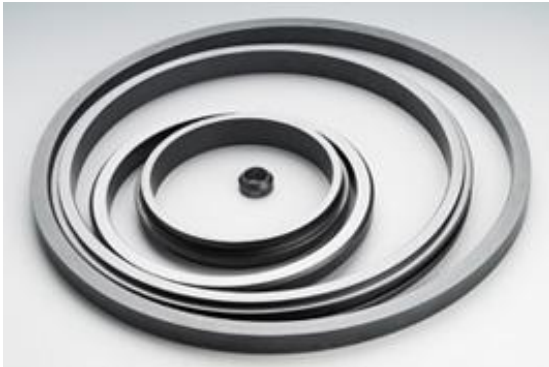


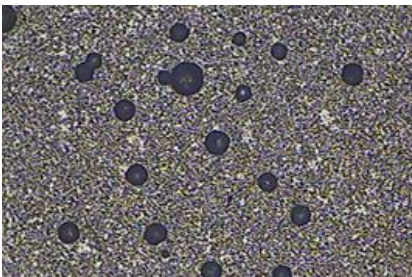
## Sintered Silicon Carbide+Spherical-pore (SSiC+P)



The Sintered Silicon Carbide+Spherical-pore is formed into micropores by adding a special pore-forming agent through high-temperature sintering, and the micropores uniformly distributed on the friction surface and independently connected, act as a reservoir of fluid or lubricant, and help promote The friction interface maintains the liquid film, reduces the frictional heat of the

friction surface, and further improves the friction performance. The product not only has the characteristics of Sintered Silicon Carbide but also is suitable for working under the conditions of instantaneous dry friction and long-term semi-dry friction. High-end applications such as field, chemical, shipbuilding and scientific research, defense and military technology.

### Characteristics



The crystal orientation of the Sintered Silicon Carbide +Spherical-pore material, and the spherical micropores are evenly distributed under the 200X optical microscope, and the micropore size is 50 to 80  $\mu\text{m}$ .

## Sintered Silicon Carbide+Spherical-pore Technical Data

Item	Unit	SSiC+P
Volume Density	$\text{g/cm}^3$	3.01~3.10
Hardness	HV0.5	$\geq 2400$
Compressive Strength	Mpa	$\geq 1500$
Flexural Strength	Mpa	$\geq 400$
Elastic Modulus	GPa	300
Thermal Conductivity	$\text{W/m}^\circ\text{K}$	90~110
Maximum Temperature	$^\circ\text{C}$	1500
Coefficient Of Heat Expansion	$10^{-6}/^\circ\text{C}$	4.0
Microporosity	%	4.0~6.0