



Carbon Graphite Ring

The purpose of any seal device is to seal gases or liquids in the closed windows. The moving parts (shaft of piston rod) can protrude from the closed windows through seal devices so as to connect with the prime movers. **Carbon graphite ring** seals can be made into non-contact structure, that is leaving a small gap between the fixed and moving parts, or the contact structure with the fixed and moving parts contacting each other.

Contact seal devices need lubricants to reduce the friction and wear on the sliding contact surface. When the liquid medium itself has the lubricant capability, it can be used as the lubricant of the contact devices. If the working medium does not have that capability, and it does not allow the use of other lubricants, the contact seal without lubricants while operating should be adopted.

When the sliding rate is low, and the working temperature and pressure are not high, soft seal filler which contains graphite can be used. We can also use the seal bowl made of leather, steel paper and fluoroplastic or graphite ring made of strengthened plastics.

The main ingredient of **carbon graphite ring** is graphite. **Carbon graphite ring** seals can be pressed into form by adding the stainless steel bushing. They can endure high temperatures, corrosion, and they are anti-aging, supple and springy. **Carbon graphite ring** seals possess excellent anti-corrosion capability, self-lubricant capability, a high conductivity coefficient, a small coefficient of expansion and a low friction coefficient. Therefore, they are the ideal vice materials for friction in the mechanic seal, suitable for a variety of mechanic seal devices.

With the operating parameters of devices rising, hard graphite ring made of carbon graphite wear-resistant materials is immensely used nowadays to ensure the device to work reliably without lubricants, in graphite ring seals for printing and dyeing mechanics and in the high temperature, high heat and corrosive media. Graphite ring seals have already been widely used.

Specifications of **Carbon Graphite Ring**

Silicon Dioxide(AL ₂ O ₃) Material Technical Parameters :		
Technical Parameters	Unit	AL ₂ O ₃ 99%
Bulk Density	g/cm ³	3.9
Rockwell Hardness	HRA	87
Porosity	%	<0.4
Coefficient of Thermal Conductivity	W/M.K	16.7
Flexural Strength	g/cm ²	2800

Silicon Carbide Performance Index:

Technical Parameters	Unit	Reacting Sintering	Pressureless Sintering
Shore Hardness	HS	≥100	≥105
Porosity	%	<0.3	<0.2
Bulk Density	g/cm ³	≥3.00	≥3.05
Compressive Strength	Mpa	>1150	>1200
Bending Strength	Mpa	>335	>350
Thermal Expansion Coefficient /°C		4.5×10 ⁻⁴	4.5×10 ⁻⁴

TC-Ni6% Technical Performance Index:

Technical Parameters	Unit	Reacting Sintering
Rockwell Hardness	HRA	88-91
Porosity	%	<0.2
Bulk Density	g/cm ³	14.8-15
Bending Strength	Mpa	≥1470
Thermal Expansion Coefficient -6/°C		5.5×10 ⁻⁶

We are professional manufacturer and supplier of **carbon graphite ring** in china. We have become a leading producer of **carbon graphite ring** on the Chinese market over the past 30 years' experience. We offer many types of **carbon graphite ring** for the clients' choice. We also keep researching and developing new **carbon graphite ring** to satisfy our clients' needs. Our company has already passed the International Quality System Certification known as ISO9001:2000. We have clients in Europe, Middle East, South America and Southeast Asia. High quality products and the competitive price are the foundation and guarantee of our growing market and clients. We can manufacture the products according to the clients' demands. We are surely willing to offer you OEM (original equipment manufacture).

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