

CARBON GRAPHITE SEAL RINGS AND SLEEVES FOR MECHANICAL SEALS AND SLIDING BEARINGS



Applications:

Seal rings/sleeves for mechanical seals, steam heads, radial sealing segmental rings, and sliding bearings. In combination with a hard face, e.g. with Carbide-90 or Carbide-100, carbon seal rings provide for minimum heat generation and longest service life.

Industries:

Refining, petrochemical, chemical, pulp and paper, metallurgic, and power industries

Fluids:

Hydrocarbons, solvents, alcohols, phenols, oils, formaldehydes, water, acids, alkalis, steam etc.

Density	1.80-2.70 g/cm ³
Porosity	1 %
Hardness	115 HRb
Compressive strength	220 MPa
Bending	90 MPa
Modulus of elasticity	30 GPa
Thermal conductivity coefficient	8-20 W/m*K
Thermal expansion coefficient	5-8*10 ⁻⁶ /K
Maximum temp	400 °C

SILICON CARBIDE RINGS AND SLEEVES FOR MECHANICAL SEALS AND SLIDING BEARINGS



Applications:

Seal rings/sleeves for mechanical seals, steam heads, and sliding bearings. In combination with carbon graphite the rings provide for minimum heat generation and long service lives.

Industries:

Refining, petrochemical, chemical, pulp and paper, metallurgic, and power industries

Fluids:

Wide range of fluids, including light and heavy hydrocarbons, amines, solvents, acids, alkalis, water, steam.

Material Carbide-90 or Carbide-100

Density	3.05 - 3.1 g/cm ³
Free silicon percentage	0 - 10 %
Porosity	0 %
Hardness	2,650 HV _{0.5}
Compressive strength	3,500 MPa
Bending strength	340 MPa
Modulus of elasticity	380 GPa
Thermal conductivity coefficient	120 W/m*K
Thermal expansion coefficient	4.2 - 4.4*10 ⁻⁶ /K
Maximum temp	1350 °C