



CHEMSHUN CERAMICS-- Silicon Carbide Liner (SiSiC)

Properties	Unit	Data
SiC	%	95~98
Free Si	%	5~12 *
Density	g/cm ³	3.01
Water Absorption	%	0
Vickers Hardness (HV10)	Kg/mm ²	2400
Fracture Toughness	Mpa.M ^{1/2}	3.3
Thermal Expansion Coefficient (25-1000℃)	1X10 ⁻⁶ /℃	4.5 (1200℃)
Maximum Operation Temperature	℃	1400
Coefficient of thermal conductivity at 1200℃	W/m.K	45
Coefficient of bending strength at 20℃	Mpa	260
Coefficient of bending strength at 1200℃	Mpa	280
Modulus of elasticity at 20℃	GPa	330

