

Main Performance Index of Sintered Reaction Silicon Carbide

Item		Reaction sintered SiC Value	Pressureless sintered SiC Value
Purity	%	>=90	>97
Density	G/cm ³	3.05	3.05-3.15
Hardness		110-125(HS)	>92(HRA)
Elastic Modulus	Gpa	420	400
Poisson Ratio		0.15	0.14
Bending Strength	Mpa	350-450	400-580
Compressive Strength	Mpa	3000	3900
Thermal Conductivity	Wm/k	35-110	125.6
Coefficient of Heat Expansion	J/°C	4.3x10 ⁻⁶	4.02x10 ⁻⁶
Heat Resistance	°C	1300	1650