

# Material Grade Chart

## Pressureless Sintered Boron Carbide

Item	Unit	B4C
Boron Carbide Purity	%	≥95
Grain Size	μ	0.5
Density	g/cm <sup>3</sup>	2.46~2.51
Hardness	HV	≥2800
Indicated Porosity	%	<0.2
Compressive Strength	MPa	≥2850
Flexural Strength	MPa	≥350
Elastic Modulus	GPa	510
Thermal Conductivity	W/m•k	35
Maximum Use Temperature	°C	850
Coefficient of Heat Expansion	10 <sup>-6</sup> •1/°C	4.5
Sintering Type	Pressureless Sintering	