Silicon Carbide (Sic) Ceramic Sheet Wear-Resistant Engineering Advanced Fine Ceramics

Item Number: KM-DG02

Introduction

Silicon carbide (sic) ceramic sheet is composed of high-purity silicon carbide and ultra-fine powder, which is formed by vibration molding and high-temperature sintering.

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Round 15*3mm	40*40*1mm	50*50*4/5/6mm	100*100*5mm	150*150*5mm
5*5*1mm	40*40*2mm	50*50*8/10mm	100*100*7mm	15*15*1mm (one side polished)
10*10*4mm	50*50*1mm	50*50*14mm	100*100*10mm	50*50*1mm (one side polished)
20*20*3mm	50*50*2mm	100*100*3mm	100*100*15mm	
20*20*5mm	50*50*3mm	100*100*4mm	100*100*20mm	

Project	Unit	Vacuum Sintering SiC	Reaction Bonded SiC
Density	g/cc	□3.12	3.05-3.08
Surface roughness	um	0.6	0.6-0.8
Hardness	Hs	□115	□110
Apparent porosity	%	□0.2	□0.3
Compressive strength	MPa	□2500	□2500
Flexural strength	MPa	□380	□350
Free silicon content	%	□1	□10
Purity (Silicon Carbide Content)	%	≥99	≥90
Elastic modulus	GPa	410	400
Thermal conductivity	Cal/cm.s.℃	0.3	0.32
Coefficient of thermal expansion	i/℃	4.2×10^6	4×10^6
Operating temperature	℃	1400	1300