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Technical Information

Materials & Item		Silicon Carbide Beam (Reaction bonded Sic Bar)	
		Technical Data	Unit
Main Chemical Composition	Al2O3	0.04	%
	SiC	86.96	%
	Fsi	10.54	%
	SiO2	2.42	%
	Others	0.04	%
Max working Temperature		1380	℃
Density		3.02	g/m ³
Apparent Strength		<0.1	%
Bending Strength		250 (20℃)	Mpa
		280 (1200℃)	Mpa
Modulus of Elasticity		330 (20℃)	Gpa
		300 (1200℃)	Gpa
Thermal Conductivity		45 (1200℃)	W/m.k
Thermal Expansion		4.5	K ⁻¹ X10 ⁻⁶
Moh's Hardness		13	---
Acid & Alkaline resistant		Excellent	---
Remark: Data of properties listed above are typical results from test pieces and therefor should be used only as guidance.			