



WILSON ENGINEERING (S) PTE LTD

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CHEMICAL PROPERTIES

Reaction Bonded Silicon Carbide (RBSC / SISIC)

Properties		Units	RSIC
Chemical Composition	SiC	%	≥99
Bulk density		g/cm ³	2.65~2.75
Open porosity		%	≤10
Modulus of rupture at 20°C		MP _a	90~100
Modulus of rupture at 1200°C		MP _a	110
Modulus of rupture at 1350°C		MP _a	120
Modulus of crushing at 20°C		MP _a	300
Thermal conductivity at 1200°C		w/m.k	36.6
Thermal expansion at 1200°C		a×10 ⁻⁶ /°C	4.69
Thermal shock resistance at 1200 °C			Excellent
Max.working temperature		°C	1650 (oxide)