PRODUCT BULLETIN

2700 Scioto Parkway Columbus, Ohio 43221 USA 614/876-0244 Fax: 614/876-0981 www.alliedmineral.com



DURALAST SIC

Silicon Nitride Bonded SiC Brick

Physical Data:	Typical
Maximum Service Temperature (°C)	1610 (2930 ^o F)
Bulk Density (g/cm³)	2.64 (165pcf)
Apparent Porosity (%)	16.0
Crushing Strength (MPa)	170 (24673psi)
Modulus of Rupture @ 20°C (68°F) (MPa)	42 (6095psi)
@ 1400°C (2552°F) (MPa)	42 (6095psi)
Thermal Conductivity (W/m.k)	
@200°C (392°F)	40.0(281Btu-in/ft ² /hr/ ^O F)
@600°C (1112°F)	27.5(193 Btu-in/ft ² /hr/ ^O F)
@700°C (1292 ^O F)	25.5(179 Btu-in/ft ² /hr/ ^O F)

Chemical Composition (As received basis):

SiC (%)	73.0
Si ₃ N ₄ (%)	22.0
Fe ₂ O ₃ (%)	0.45

The test data shown are based on average results on production samples and are subject to normal variation on individual tests.

Accordingly, test data cannot be taken as establishing maximum specifications. ASTM test procedure used when applicable.

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