

Grade	Value	Unit
Maximum service temperature	1,000	°C
	1,832	°F
Bulk density, dry	225	kg/m <sup>3</sup>
	14	lbs/ft <sup>3</sup>
Cold crushing strength (DS/EN ISO 8895_2006)	2.6	MPa
	377	lbs/in <sup>2</sup>
Modulus of rupture (EN 993-6: 1995)	1.3	MPa
	189	lbs/in <sup>2</sup>
Linear reheat shrinkage (EN 1094-6:1999) 12h @ 950°C (1,742°F)	1.0	%
Total porosity (EN 1094-4:1995)	91	%
Creep in compression (EN 993-9:1997) 50 h @ 800°C (1,472°F), load 0.1 Mpa (14.5 lbs/in <sup>2</sup> )	3.3	%
Permeability to gases (EN 993-4:1995)	0.7	nPm
Specific heat	0.84	kJ/(kg×K)
	0.20	BTU/(lb×°F)
Coefficient of reversible thermal expansion (BS 1902: section 5.3:1990) @ 20 – 750°C (68 – 1,382°F)	5.5	×10 <sup>-6</sup> K <sup>-1</sup>
	3.1	×10 <sup>-6</sup> °F <sup>-1</sup>
Pyrometric cone equivalent (ASTM C24-09 (13) Orton cones)	1,349	°C
	2,460	°F

Thermal conductivity (ASTM C-182)	Mean temperature		
	200°C	0.08	W/(m×K)
	400°C	0.10	W/(m×K)
	600°C	0.12	W/(m×K)
	800°C	0.14	W/(m×K)
	392°F	0.55	BTU/(ft <sup>2</sup> ×h×°F/in)
	752°F	0.69	BTU/(ft <sup>2</sup> ×h×°F/in)
	1,112°F	0.83	BTU/(ft <sup>2</sup> ×h×°F/in)
	1,472°F	0.97	BTU/(ft <sup>2</sup> ×h×°F/in)

Chemical analysis, typical			
Silica	SiO <sub>2</sub>	47	%
Alumina	Al <sub>2</sub> O <sub>3</sub>	0.2	%
Ferric oxide	Fe <sub>2</sub> O <sub>3</sub>	0.1	%
Magnesium oxide	MgO	0.4	%
Calcium oxide	CaO	42	%
Sodium oxide	Na <sub>2</sub> O	0.1	%
Potassium oxide	K <sub>2</sub> O	0.1	%
Loss on ignition @1,025°C (1,877°F)	LOI	9	%

Non-combustibility tests (EN 13501-1:2007 + A1:2009)	Class A2-s1,d0
HS Tariff number (Harmonized Commodity Description and Coding System)	6806.90.00
Colour	Grey

Data are average results of tests conducted under standard procedures and are subject to variation.  
 Data contained in this data sheet are supplied in good faith as a technical service and are subject to change without notice. Misprint and errors excepted.  
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