

Grade	Value	Unit
Maximum service temperature	1,000 1,832	°C °F
Bulk density, dry	300 19	kg/m <sup>3</sup> lbs/ft <sup>3</sup>
Cold crushing strength (DS/EN ISO 8895_2006)	2.8 406	MPa lbs/in <sup>2</sup>
Modulus of rupture (EN 993-6:1995)	1.7 247	MPa lbs/in <sup>2</sup>
Linear reheat shrinkage (EN 1094-6:1999) 12h @ 950°C (1,742°F)	1.5	%
Total porosity (EN 1094-4:1995)	89	%
Creep in compression (EN 993-9:1997) 50 h @ 900°C (1,652°F), load 0.1 Mpa (14.5 lbs./sq.in)	0.4	%
Permeability to gases (EN 993-4:1995)	1.0	nPm
Specific heat	0.84 0.20	kJ/(kg×K) BTU/(lb×°F)
Coefficient of reversible thermal expansion @ 20 - 750°C (68 - 1,382°F)	5.5 3.1	×10 <sup>-6</sup> K <sup>-1</sup> ×10 <sup>-6</sup> °F <sup>-1</sup>
Pyrometric cone equivalent (ASTM C24-01 Orton cones)	1,349 2,460	°C °F
Water content	2.5	%
Dimension stability under specified temp. and humidity conditions (EN 1604) @ 23°C - 90%RH - 48 h	0.0	%

Thermal conductivity (ASTM C-182)	Mean temperature		
	200°C	0.09	W/(m×K)
	400°C	0.11	W/(m×K)
	600°C	0.14	W/(m×K)
	800°C	0.15	W/(m×K)
	392°F	0.62	BTU/(ft <sup>2</sup> ×h×°F/in)
	752°F	0.76	BTU/(ft <sup>2</sup> ×h×°F/in)
	1,112°F	0.97	BTU/(ft <sup>2</sup> ×h×°F/in)
	1,472°F	1.04	BTU/(ft <sup>2</sup> ×h×°F/in)

Chemical analysis, typical			
Silica	SiO <sub>2</sub>	46	%
Alumina	Al <sub>2</sub> O <sub>3</sub>	0.3	%
Ferric oxide	Fe <sub>2</sub> O <sub>3</sub>	0.3	%
Magnesium oxide	MgO	0.6	%
Calcium oxide	CaO	45	%
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	6	%

Non-combustibility tests (EN 13501-1:2007 + A1:2009)	Class A1	
HS Tariff number (Harmonized Commodity Description and Coding System)	6806.00.00	
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.  
 Revision number: 23-04-2018