

	Value	Unit
Maximum service temperature	950	°C
	1,742	°F
Bulk density	750	kg/m <sup>3</sup>
	47	lb/ft <sup>3</sup>
Cold crushing strength (EN ISO 8895)	7.5	MPa
	1,088	lb/in <sup>2</sup>
Modulus of rupture (EN 993-6)	1.8	MPa
	216	lb/in <sup>2</sup>
Linear reheat shrinkage (EN 1094-6) after 12 hours at 900°C (1,652°F)	1.0	%
Total porosity (EN 1094-4)	68	%
Coefficient of reversible thermal expansion at 20°C to 750°C (68°F to 1,382°F)	3.0	×10 <sup>-6</sup> K <sup>-1</sup>
	1.7	×10 <sup>-6</sup> °F <sup>-1</sup>
Resistance to thermal shock (EN 993-11)	> 30	Cycles

Thermal conductivity (ASTM C-182)	Mean temperature		
	200°C	0.15	W/(m×K)
	400°C	0.17	W/(m×K)
	600°C	0.19	W/(m×K)
	800°C	0.21	W/(m×K)
	392°F	1.04	BTU/(ft <sup>2</sup> ×h×°F/in)
	752°F	1.18	BTU/(ft <sup>2</sup> ×h×°F/in)
	1,112°F	1.32	BTU/(ft <sup>2</sup> ×h×°F/in)
	1,472°F	1.46	BTU/(ft <sup>2</sup> ×h×°F/in)

Chemical analysis			
Silica	SiO <sub>2</sub>	77	%
Titanium dioxide	TiO <sub>2</sub>	0.7	%
Ferric oxide	Fe <sub>2</sub> O <sub>3</sub>	7.0	%
Alumina	Al <sub>2</sub> O <sub>3</sub>	9.0	%
Magnesium oxide	MgO	1.3	%
Calcium oxide	CaO	0.8	%
Sodium oxide	Na <sub>2</sub> O	0.4	%
Potassium oxide	K <sub>2</sub> O	1.6	%
Sulphur trioxide	SO <sub>3</sub>	1.0	%
Loss on ignition at 1,025°C (1,877°F)	LOI	1.0	%

HS Tariff number (Harmonized Commodity Description and Coding System)	6901.00.00	
Colour	Red	

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: 7.12.2023

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