

V-1100 (600)

for back-up insulation up to 1100°C (2012°F)



Grade		V-1100 (600)	
Maximum service temperature	°C	1100	
	°F	2012	
Bulk density, dry	kg/m ³	600	
	lbs/cu.ft.	38	
Cold compressive strength (EN 1094-5:1995)	MPa	4.2	
	lbs/sq.in.	609	
Modulus of rupture (EN 993-6:1995)	MPa	1.6	
	lbs/sq.in.	232	
Linear reheat shrinkage (EN 1094-6:1999) 12h @ 1000°C (1832°F)	%	1.0	
Total porosity (EN 1094-4:1995)	%	76	
Specific heat	kJ/(kg×K)	0.94	
	BTU/(lb×°F)	0.22	
Coefficient of reversible thermal expansion @ 20°C-750°C (68°F-1382°F)	x10 ⁻⁶ K ⁻¹	11.0	
	x10 ⁻⁶ °F ⁻¹	6.1	
Resistance to thermal shock (EN 993-11:1999)	Cycles	> 30	
Pyrometric Cone Equivalent (ASTM C24-89 Orton cones)	°C	1300	
	°F	2372	
Thermal conductivity (ASTM C-182) Measured perpendicular to large faces	mean temp. @	@ 200°C	0.16
		@ 400°C	0.18
@ 600°C		0.20	
@ 800°C		0.22	
		@ 392°F	1.11
		@ 752°F	1.25
		@ 1112°F	1.39
		@ 1472°F	1.53
Chemical analysis, typical	%		
Silica	SiO ₂	46	
Titanium dioxide	TiO ₂	0.7	
Ferric oxide	Fe ₂ O ₃	5.5	
Alumina	Al ₂ O ₃	7.0	
Magnesium oxide	MgO	19.0	
Calcium oxide	CaO	3.5	
Sodium oxide	Na ₂ O	0.2	
Potassium oxide	K ₂ O	10.0	
Loss on ignition 1025°C (1877°F)	LOI	7.0	
HS Tariff number (Harmonized Commodity Description and Coding System)		6806.90.00	
Colour		SAND	

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.