



SKAMOL VIP-12

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



Maximum service temperature (PrEN 14306:2002)		
	°C	1100
	°F	2012
Bulk density, dry		
	kg/m ³	1200
	lbs/cu.ft.	75
Compressive strength (EN 1094-5: 1995)		
@ room temperature	MPa	9.5
	lbs/sq.in.	1378
Modulus of rupture (EN 993-6: 1995)		
	MPa	2.8
	lbs/sq.in.	406
Total porosity		
	%	56
Specific heat		
	kJ/(kg×K)	1.0
	BTU/(lb×°F)	0.24
Coefficient of reversible thermal expansion (BS 1902: section 5.3: 1990)		
@ 20°C-750°C (68°F-1382°F)	K ⁻¹	10×10 ⁻⁶
	°F ⁻¹	5.6×10 ⁻⁶
Linear reheat shrinkage (EN 1094-6: 1999)		
12 h at 1000°C (1832°F)	%	0.9
Pyrometric cone equivalent (ASTM C24-89 ORTON cones)		
	°C	1330
	°F	2426
Thermal conductivity (ASTM C-182)		
mean temp. @ 200°C	W/(m×K)	0.250
@ 400°C		0.265
@ 600°C		0.285
@ 800°C		0.295
@ 392°F	BTU/(sq.ft.×h×°F/in)	1.73
@ 752°F		1.84
@ 1112°F		1.98
@ 1472°F		2.05
Chemical analysis, typical		
	%	
Silica	SiO ₂	52
Titanium dioxide	TiO ₂	1.6
Ferric oxide	Fe ₂ O ₃	3.8
Alumina	Al ₂ O ₃	23
Magnesium oxide	MgO	8.9
Calcium oxide	CaO	1.5
Sodium oxide	Na ₂ O	0.2
Potassium oxide	K ₂ O	5.6
Loss on ignition 1025°C (1877°F)	LOI	3.0
Colour		Light brown

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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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