

SKAMOL V-1100 (375) vermiculite insulating board

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



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Grade	V-1100 (375)	
Maximum service temperature		
	°C	1100
	°F	2012
Bulk density, dry (EN 1094-4)		
	kg/m ³	375
	lbs/cu.ft.	23.4
Compressive strength (EN 1094-5: 1995)		
@ room temperature	MPa	1.3
	lbs/sq.in.	189
Modulus of rupture (EN 993-6: 1995)		
	MPa	0.3
	lbs/sq.in.	44
Total porosity (EN 1094-4:1995)		
	%	85
Specific heat		
	kJ/(kg×K)	0.94
	BTU/(lb×°F)	0.224
Coefficient of reversible thermal expansion (BS 1902: section 5.3: 1990)		
@ 20°C-750°C (68°F-1382°F)	K ⁻¹	11×10 ⁻⁶
	°F ⁻¹	6.1×10 ⁻⁶
Resistance to thermal shock (EN 993-11: 1998)		
heating to 950°C (1742°F)	cycles	>30
Linear reheat shrinkage (EN 1094-6: 1999)		
12 h at 1000°C (1832°F)	%	1.0
12 h at 1100°C (2012°F)		-
Pyrometric cone equivalent (ASTM C24-89 ORTON cones)		
	°C	1300
	°F	2372
Thermal conductivity (ASTM C-182)		
mean temp. @ 200°C	W/(m×K)	0.12
@ 400°C		0.15
@ 600°C		0.16
@ 800°C		0.19
@ 392°F	BTU/(sq.ft.×h×°F/in)	0.83
@ 752°F		1.04
@ 1112°F		1.11
@ 1472°F		1.32
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
Calcium oxide	CaO	3.5
Sodium oxide	Na ₂ O	0.2
Potassium oxide	K ₂ O	10
Loss on ignition 1025°C (1877°F)	LOI	7.0
Colour		SAND
HS Tariff number		
(Harmonized Commodity Description and Coding System)		6806.90.00

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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