



SKAMOL VIP-900

Hot-face and back-up insulation for iron & steel industries



Maximum service temperature		
	°C	1150
	°F	2102
Bulk density, dry		
	kg/m ³	900
	lbs/cu.ft.	56
Compressive strength (EN 1094-5: 1995)		
@ room temperature	MPa	6.3
	lbs/sq.in.	914
Modulus of rupture (EN 993-6: 1995)		
	MPa	2.1
	lbs/sq.in.	305
Apparent porosity		
	%	67
Specific heat		
	kJ/(kg×K)	0.97
	BTU/(lb×°F)	0.23
Coefficient of reversible thermal expansion (BS 1902: section 5.3: 1990)		
@ 20°C-750°C (68°F-1382°F)	K ⁻¹	10.5×10 ⁻⁶
	°F ⁻¹	5.9×10 ⁻⁶
Resistance to thermal shock (EN 993-11: 1998)		
heating to 950°C (1742°F)	cycles	-
Linear reheat shrinkage (EN 1094-6: 1999)		
12 h at 1100°C (2012°F)		1.2
Pyrometric cone equivalent (ASTM C24-89 ORTON cones)		
	°C	1310
	°F	2390
Thermal conductivity (ASTM C-182)		
mean temp. @ 200°C	W/(m×K)	0.23
@ 400°C		0.25
@ 600°C		0.26
@ 800°C		0.28
@ 1000°C		0.30
@ 392°F	BTU/(sq.ft.×h×°F/in)	1.59
@ 752°F		1.73
@ 1112°F		1.80
@ 1472°F		1.94
@ 1832°F		2.08
Chemical analysis, typical		
	%	
Silica	SiO ₂	48
Titanium dioxide	TiO ₂	1.5
Ferric oxide	Fe ₂ O ₃	5.4
Alumina	Al ₂ O ₃	16
Magnesium oxide	MgO	14
Calcium oxide	CaO	3.4
Sodium oxide	Na ₂ O	0.1
Potassium oxide	K ₂ O	6.8
Loss on ignition 1025°C (1877°F)	LOI	3.6
Colour		SAND
HS Tariff number		
(Harmonized Commodity Description and Coding System)		6806.90.00

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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.

Note: The TC value at 1000°C (1832°F) is estimated.

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