

SKAMOL SUPER-ISOL calcium silicate insulating slabs

for back-up insulation up to 1000°C (1832°F)



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Grade	SUPER-ISOL	
Maximum service temperature		
	°C	1000
	°F	1832
Bulk density, dry		
	kg/m ³	225
	lbs/cu.ft.	14.0
Compressive strength (EN 1094-5: 1995)		
@ room temperature	MPa	2.6
	lbs/sq.in.	377
Modulus of rupture (EN 993-6: 1995)		
	MPa	1.3
	lbs/sq.in.	189
Total porosity		
	%	91
Permeability to air (BS EN 993-4: 1995)		
	nPm	0.7
Creep in compression (EN 993-9: 1997)		
50 h at 900°C (1652°F), load 0.1 MPa (14.5 lbs/sq.in.)	%	0.5
Specific heat		
	kJ/(kg×K)	0.84
	BTU/(lb×°F)	0.20
Coefficient of reversible thermal expansion (BS 1902: section 5.3: 1990)		
@ 20°C-750°C (68°F-1382°F)	K ⁻¹	5.5×10 ⁻⁶
	°F ⁻¹	3.1×10 ⁻⁶
Linear reheat shrinkage (EN 1094-6: 1999)		
12 h at 50°C (90°F) below max. service temp.	%	1.0
Pyrometric cone equivalent (ASTM C24-89 ORTON cones)		
	°C	1345
	°F	2453
Thermal conductivity (ASTM C-182)		
mean temp. @ 200°C	W/(m×K)	0.08
@ 400°C		0.10
@ 600°C		0.12
@ 392°F	BTU/(sq.ft×h×°F/in)	0.55
@ 752°F		0.69
@ 1112°F		0.83
Chemical analysis, typical		
	%	
Silica	SiO ₂	45
Alumina	Al ₂ O ₃	0.2
Ferric oxide	Fe ₂ O ₃	0.2
Magnesium oxide	MgO	0.7
Calcium oxide	CaO	45
Sodium oxide	Na ₂ O	0.1
Potassium oxide	K ₂ O	0.2
Loss on ignition 1025°C (1877°F)	LOI	8
Colour		
		Grey
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

September 2010