

SUPER-ISOL Calcium Silicate insulating boards

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



Maximum service temperature		
	°C	1000
	°F	1832
Bulk density, dry		
	kg/m ³	225
	lbs/cu.ft.	14
Compressive strength (EN 1094-5: 1995)		
@ room temperature	MPa	2.6
	lbs/sq.in.	377
Modulus of rupture (EN 993-6: 1995)		
	MPa	1.9
	lbs/sq.in.	275.5
Total porosity		
	%	91
Permeability to air (BS EN 993-4: 1995)		
	nPm	0.7
Creep in compression (EN 993-9: 1997)		
50h 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)	0.2
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)		
12h at 50°C (122°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)	0.06
mean temp. @ 400°C	W/(m×K)	0.08
mean temp. @ 600°C	W/(m×K)	0.10
mean temp. @ 392°F	BTU/(sq.ft.xh×°F/in.)	0.42
mean temp. @ 752°F	BTU/(sq.ft.xh×°F/in.)	0.55
mean temp. @ 1112°F	BTU/(sq.ft.xh×°F/in.)	0.69
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

Skamol A/S
 Østergade 58-60
 DK-7900 Nykøbing Mors
 Denmark
 Tel: 45 9772 1533
 Fax: 45 9772 4975
 insulation@skamol.dk

Sales offices

Skamol Europe GmbH
 Düsseldorferstrasse 88
 D-40667 Meerbusch
 Germany
 Tel: +49 (0) 2132-13694 0
 Fax: +49 (0) 2132-13694 64

Skamol Americas, Inc.
 10100 Park Cedar Drive
 Suite 124
 Charlotte, NC 28210
 USA
 Tel: +1 (704) 544-1015
 Fax: +1 (704) 544-1239

www.skamol.com

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.

Skamol A/S is DS/EN ISO 9001 certified.