SKAMOL Moler insulating brick M-EXTRA

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

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

www.skamol.com

Grade		M-EXTRA
Maximum service temperature		
	°C	1000
	°F	1832
Bulk density, dry		
	kg/m^3	950
	lbs/cu.ft.	59
Cold crushing stength (EN 1094-5:1995)		
@ room temperature	MPa	18.0
	lbs/sq.in.	2610
Modulus of rupture (EN 993-6:1995)		
	MPa	4.0
	lbs/sq.in.	580
Total porosity (EN 1094-4: 1995)		
	%	60
Permeability to air (BS EN 993-4: 1995)		
	nPm	0.5
Creep in compression (EN 993-9: 1997)		
50 h at 100°C (180°F) below max. service temperature	%	1.5
load 0.1 MPa (14.5 lbs/sq.in.)		
Specific heat		
	kJ/(kg×K)	0.80
	BTU/(lb×°F)	0.19
Coefficient of reversible thermal expansion (BS 1902: section 5.3: 1990)		
@ 20°C-750°C (68°F-1382°F)	K^{-1}	$3.0x10^{-6}$
	$°F^{-1}$	$1.6x10^{-6}$
Resistance to thermal shock (EN 993-11: 1998)		
	cycles	> 50
Linear reheat shrinkage (EN 1094-6: 1999)		
	%	1.0
Pyrometric cone equivalent (ASTM C24-89 ORTON cones)		
	°C	1350
	°F	2462
Thermal conductivity (ASTM C-182 supplemented by ASTM C-201)		
mean temp. @ 200°C	W/(m×K)	0.22
@ 400°C		0.24
@ 600°C		0.25
@ 392°F	BTU/(sq.ft×h×°F/in)	1.52
@ 752°F		1.65
@ 1112°F		1.76
Chemical analysis, typical	%	
Silica	SiO_2	77
Titanium oxide	TiO_2	0.7
Ferric oxide	Fe_2O_3	7.0
Alumina	Al_2O_3	9.0
Magnesium oxide	MgO	1.3
Calcium oxide	CaO	0.8
Sodium oxide	Na_2O	0.4
Potassium oxide	K_2O	1.6
Sulphur trioxide	SO_3	1.0
Loss on ignition 1025°C (1877°F)	LOI	1.0
Colour		
		red
HS Tariff number		
(Harmonized Commodity Description and Coding System)		6901.00.00

June 2010