

**SKAMOL Moler insulating BF-Block**  
for back-up insulation - up to 900°C (1652°F)



Grade	BF-BLOCK	
<b>Maximum service temperature</b>		
	°C	900
	°F	1652
<b>Bulk density, dry</b>		
	kg/m <sup>3</sup>	650
	lbs/cu.ft.	41
<b>Cold crushing strength (EN 1094-5:1995)</b>		
@ room temperature	MPa	2.5
	lbs/sq.in.	363
<b>Modulus of rupture (EN 993-6:1995)</b>		
	MPa	-
	lbs/sq.in.	-
<b>Total porosity (EN 1094-4: 1995)</b>		
	%	72
<b>Permeability to air (BS EN 993-4: 1995)</b>		
	nPm	8.0
<b>Creep in compression (EN 993-9: 1997)</b>		
50h at 800°C (1472°F), load 0.1 MPa (14.5 lbs/sq.in.)	%	1.5
<b>Specific heat</b>		
	kJ/(kg×K)	0.80
	BTU/(lb×°F)	0.19
<b>Coefficient of reversible thermal expansion (BS 1902: section 5.3: 1990)</b>		
@ 20°C-750°C (68°F-1382°F)	K <sup>-1</sup>	2.0x10 <sup>-6</sup>
	°F <sup>-1</sup>	1.1x10 <sup>-6</sup>
<b>Resistance to thermal shock (EN 993-11: 1998)</b>		
	cycles	> 30
<b>Linear reheat shrinkage (EN 1094-6: 1999)</b>		
	%	1.0
<b>Pyrometric cone equivalent (ASTM C24-89 ORTON cones)</b>		
	°C	1350
	°F	2462
<b>Thermal conductivity (ASTM C-182 supplemented by ASTM C-201)</b>		
mean temp. @ 200°C	W/(m×K)	0.13
@ 400°C		0.15
@ 600°C		0.17
@ 800°C		0.18
@ 392°F	BTU/(sq.ft×h×°F/in)	0.90
@ 752°F		1.04
@ 1112°F		1.18
@ 1472°F		1.25
<b>Chemical analysis, typical</b>	%	
Silica	SiO <sub>2</sub>	77
Titanium oxide	TiO <sub>2</sub>	0.7
Ferric oxide	Fe <sub>2</sub> O <sub>3</sub>	7.0
Alumina	Al <sub>2</sub> O <sub>3</sub>	9.0
Magnesium oxide	MgO	1.3
Calcium oxide	CaO	0.8
Sodium oxide	Na <sub>2</sub> O	0.4
Potassium oxide	K <sub>2</sub> O	1.6
Sulphur trioxide	SO <sub>3</sub>	1.0
Loss on ignition 1025°C (1877°F)	LOI	1.0
<b>Colour</b>		red
<b>HS Tariff number</b> (Harmonized Commodity Description and Coding System)		6901.00.00

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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.

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