SKAMOL Moler insulating BB-Block

for back-up insulation - up to 900°C (1652°F)

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Grade	(Péchiney spec.)	BB-BLOCK
Maximum service temperature		
	°C	900
	°F	1652
Bulk density, dry		
	kg/m^3	625
	lbs/cu.ft.	39
Cold crushing strength (EN 1094-5:1995)		
@ room temperature	MPa	2.0
	lbs/sq.in.	290
Modulus of rupture (EN 993-6:1995)		
	MPa	-
	lbs/sq.in.	-
Total porosity (EN 1094-4: 1995)		
	%	72
Permeability to air (BS EN 993-4: 1995)		
	nPm	8.0
Creep in compression (EN 993-9: 1997)		
50h at 800°C (1472°F), 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}	$2.0x10^{-6}$
	$°F^{-1}$	$1.1x10^{-6}$
Resistance to thermal shock (EN 993-11: 1998)		
	cycles	> 30
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)	0.16
@ 400°C		0.18
@ 600°C		0.20
@ 392°F	BTU/(sq.ft×h×°F/in)	1.110
@ 752°F		1.248
@ 1112°F		1.387
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

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