



# Skamolex HD

Customized lining solutions for gasfires, fireplaces and stoves - up to 1150°C (2102°F)



<b>Maximum service temperature</b>		
	°C	1150
	°F	2102
<b>Bulk density, dry</b>		
	kg/m <sup>3</sup>	900
	lbs/cu.ft.	56
<b>Compressive strength (EN 1094-5: 1995)</b>		
@ room temperature	MPa	6.3
	lbs/sq.in.	914
<b>Modulus of rupture (EN 993-6: 1995)</b>		
	MPa	2.1
	lbs/sq.in.	305
<b>Apparent porosity</b>		
	%	67
<b>Specific heat</b>		
	kJ/(kg×K)	0.97
	BTU/(lb×°F)	0.23
<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>	10.5×10 <sup>-6</sup>
	°F <sup>-1</sup>	5.9×10 <sup>-6</sup>
<b>Resistance to thermal shock (EN 993-11: 1998)</b>		
heating to 950°C (1742°F)	cycles	-
<b>Linear reheat shrinkage (EN 1094-6: 1999)</b>		
12 h at 1100°C (2012°F)		1.2
<b>Pyrometric cone equivalent (ASTM C24-89 ORTON cones)</b>		
	°C	1310
	°F	2390
<b>Thermal conductivity (ASTM C-182)</b>		
mean temp. @ 200°C	W/(m×K)	0.23
@ 400°C		0.25
@ 600°C		0.26
@ 800°C		0.28
@ 1000°C		0.30
@ 392°F	BTU/(sq.ft.×h×°F/in)	1.59
@ 752°F		1.73
@ 1112°F		1.80
@ 1472°F		1.94
@ 1832°F		2.08
<b>Chemical analysis, typical</b>		
	%	
Silica	SiO <sub>2</sub>	48
Titanium dioxide	TiO <sub>2</sub>	1.5
Ferric oxide	Fe <sub>2</sub> O <sub>3</sub>	5.4
Alumina	Al <sub>2</sub> O <sub>3</sub>	16
Magnesium oxide	MgO	14
Calcium oxide	CaO	3.4
Sodium oxide	Na <sub>2</sub> O	0.1
Potassium oxide	K <sub>2</sub> O	6.8
Loss on ignition 1025°C (1877°F)	LOI	3.6
<b>Colour</b>		<b>SAND</b>

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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.

Note: The TC value at 1000°C (1832°F) is estimated.

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