SKAMOTEC 225

Building boards for fireplace enclosures

Grade				SKAMOTEC 225
Bulk density, dry			kg/m³ lbs/cu.ft.	225 14
Cold crushing strength (DS/EN ISO 8895_2006)			MPa lbs/sq.in.	2.8 406
Modulus of rupture (EN 993-6:1995)			MPa lbs/sq.in.	1.4 203
Total porosity (EN 1094-4:1995)			%	91
Permeability to gases (EN 993-4:1995)			nPm	0.7
Specific heat			kJ/(kg×K) BTU/(lb×°F)	0.84 0.20
Coefficient of reversible thermal expansion (BS 1902: section 5.3:1990) @ 20 - 750°C (68 - 1382°F)			$x10^{-6}$ K^{-1} $x10^{-6}$ $°F^{-1}$	5.5 3.1
Tensile strength (EN 1607)			kPa lb/in²	610 88.47
Dimension stability under specified temp. and humidity conditions (EN 1604) @ 23°C - 90%RH - 48 h			%	0.0
Thermal conductivity (EN 12667) λ 10		@ 10°C @ 50°F	W/(m×K) BTU/(sq.ft×h×°F/in)	0.061 0.423
Thermal conductivity (ASTM C-182)	mean temp.	@ 200°C @ 392°F	W/(m×K) BTU/(sq.ft×h×°F/in)	0.07 0.49
Chemical analysis, typical			%	
Silica			SiO_2	47
Alumina			Al_2O_3	0.2
Ferric oxide			Fe_2O_3	0.1
Magnesium oxide			MgO	0.4
Calcium oxide			CaO	42
Sodium oxide			Na_2O	0.1
Potassium oxide			K_2O	0.1
Loss on ignition @1025°C (1877°F)			LOI	9
Non-combustibility tests (EN 13501-1:2007 + A1:2009)				Class A1
HS Tariff number (Harmonized Commodity Description and Coding System)				6806.90.00
Colour				GREY

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 - 2015-04-28

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