

SKAMOTEC 225

Building boards for fireplace enclosures



Grade

SKAMOTEC 225

Bulk density, dry		kg/m ³ 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/in ²	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)	@ 10°C	W/(m×K)	0.061
λ 10	@ 50°F	BTU/(sq.ft×h×°F/in)	0.423
Thermal conductivity (ASTM C-182)	mean temp. @ 200°C	W/(m×K)	0.07
	@ 392°F	BTU/(sq.ft×h×°F/in)	0.49
Chemical analysis, typical		%	
Silica		SiO ₂	47
Alumina		Al ₂ O ₃	0.2
Ferric oxide		Fe ₂ O ₃	0.1
Magnesium oxide		MgO	0.4
Calcium oxide		CaO	42
Sodium oxide		Na ₂ O	0.1
Potassium oxide		K ₂ O	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.