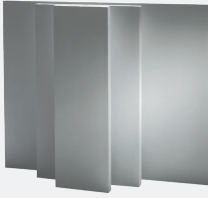


SKAMOTEC 225

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) 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 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.