SkamoCeramic S-Isol

Industry

Grade	Value	Unit
Maximum service temperature	1,000 1,832	°C °F
Bulk density, dry	225 14	kg/m³ lbs/ft³
Cold crushing strength (DS/EN ISO 8895_2006)	2.6 377	MPa lbs/in²
Modulus of rupture (EN 993-6: 1995)	1.3 189	MPa lbs/in²
Linear reheat shrinkage (EN 1094-6:1999) 12h @ 950°C (1,742°F)	1.0	%
Total porosity (EN 1094-4:1995)	91	%
Creep in compression (EN 993-9:1997) 50 h @ 800°C (1,472°F), load 0.1 Mpa (14.5 lbs/in²)	3.3	%
Permeability to gases (EN 993-4:1995)	0.7	nPm
Specific heat	0.84 0.20	kJ/(kg×K) BTU/(lb×°F)
Coefficient of reversible thermal expansion (BS 1902: section 5.3:1990) @ 20 – 750°C (68 – 1,382°F)	5.5 3.1	×10⁻⁶ K⁻¹ ×10⁻⁶ °F⁻¹
Pyrometric cone equivalent (ASTM C24-09 (13) Orton cones)	1,349 2,460	°C °F

Thermal conductivity (ASTM C-182)	Mean temperature		
	200°C	0.08	W/(m×K)
	400°C	0.10	W/(m×K)
	600°C	0.12	W/(m×K)
	800°C	0.14	W/(m×K)
	392°F	0.55	BTU/(ft²×h×°F/in)
	752°F	0.69	BTU/(ft²×h×°F/in)
	1,112°F	0.83	BTU/(ft²×h×°F/in)
	1,472°F	0.97	BTU/(ft²×h×°F/in)

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 @1,025°C (1,877°F)	LOI	9	%

Non-combustibility tests (EN 13501-1:2007 + A1:2009)	Class A2-s1,d0	
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.
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