



SERATHERM Calcium Cilicate Board

Maximum service temperature	°C	1100
Bulk density, dry	kg/m ³	260
Compressive strength @ room temperature	MPa	2.6
Modulus of rupture	MPa	1.9
Total porrosity	%	91
Permeability to air	nPm	0.7
Creep in compression 50h at 900°C load 0.1 MPa	%	0.5
Specific heat	kJ/(kg.K)	0.84
Coefficent of reversible thermal expansion @ 20°C-750°C	K	5.5x10 ⁻⁶
Linear reheat shrinkage 12h at 50°C below max. service temp.	%	1.0
Pyrometric cone equivalent	°C	1345
Thermal conductivity		
mean temp. Up to 200°C	W/(m.K)	0.06
mean temp. Up to 400°C	W/(m.K)	0.08
mean temp. Up to 600°C	W/(m.K)	0.10
Chemical analysis, typical	%	
Silica	SiO ₂	45
Alumina, Calcium Oxide	Al ₂ O ₃ + CaO	50
Ferric oxide	Fe ₂ O ₃	0.2
Magnesium oxide	MgO	0.7
Sodium oxide	Na ₂ O	0.1
Potassium oxide	K ₂ O	0.2
Loss on ignition 1025°C	LOI	8
Colour		White

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