

insulite® 1900

High temperature insulating
calcium silicate boards



simonsen®

Density: ASTM C134-95 EN 1602, EN 13470 kg/m ³ Lbs./cu.ft.	255 16
Max. Service Temperature: EN 1094-6 °C °F	1050 1922
Compressive Strength: (at 5% compaction) EN 826	@ RT..... MPa @ RT..... psi @ 750°C..... MPa @ 1382°F..... psi	1.6 232 1.0 145
Modulus of Rupture: DIN EN 993-6 MPa psi	≥ 0.5 72.5
Coefficient of Thermal Expansion: EN 13471	20°C – 700 °C K ⁻¹ 68 °F – 1292 °F °F ⁻¹	5.5 x 10 ⁻⁶ 3.1 x 10 ⁻⁶
Specific Heat: kJ/(kg K) Btu/(lb·°F)	0.9 0.22
Apparent Porosity: ASTM C 20-92 EN 993-1 %	90
Mean Linear Shrinkage 12H: (Length & Width) ASTM C 356 - 87 EN 1094-6	@ 750°C (1382°F)..... % @ 1000°C (1832°F)..... %	< 0.6 < 1.2
Thermal Conductivity: ISO 8894-1, ISO 8302		
W/(m·K)	@ 200°C..... @ 400°C..... @ 600°C..... @ 800°C.....	0.08 0.11 0.15 0.18
Btu/(sq.ft.h·°F/in)	@ 392°F..... @ 752°F..... @ 1112°F..... @ 1472°F.....	0.55 0.76 1.04 1.24

Chemical Composition:	CaO (Calcium Oxide)	%	45 - 50
	SiO ₂ (Silicium Dioxide)	%	40 - 45
	Al ₂ O ₃ (Aluminium Oxide)	%	< 0.4
	Fe ₂ O ₃ (Iron Oxide)	%	0.2
	MgO (Magnesium Oxide)	%	0.5
	K ₂ O + Na ₂ O (Potassium - /Sodium Oxide)	%	< 0.2
	Loss on Ignition	%	8 - 10

Dimensional Tolerances:	Length	mm	+ / - 2.0	
	Width	mm	+ / - 2.0	
	Thickness	≤ 50 mm	mm	+ / - 2.0
		> 50 mm	mm	+ 3.0 / - 2.0
		Machined 1 face	mm	+ / - 0.6

HS Tariff Number: 68062090
(Harmonized Commodity Description and Coding System)

Packing: All slabs are packed on strong, double-deck pallets. Hardboard on 4 sides and top, 8 edges, nylon straps and 120 µ shrinkwrap.

insulite 1900 is supplied in the following standard sizes:

LENGTH & WIDTH:

Standard:

3000 x 1250 mm = 118 x 49"
1500 x 1250 mm = 59 x 49"
1000 x 1250 mm = 39 x 49"
500 x 1250 mm = 20 x 49"

Off-standard:

1000 x 610 mm = 39 x 24"
1000 x 305 mm = 39 x 12"
914 x 610 mm = 36 x 24"
914 x 305 mm = 36 x 12"

THICKNESS:

Standard:

25 mm = approx. 1"
30 mm = - 1 1/6"
38 mm = - 1 1/2"
40 mm = - 1 1/2"
50 mm = - 2"
60 mm = - 2 1/3"
65 mm = - 2 1/2"
70 mm = - 2 3/4"
76 mm = - 3"
80 mm = - 3 1/6"
90 mm = - 3 1/2"
100 mm = - 4"

- Any special thickness required between 25 and 100 mm (1" and 4") can be produced in accordance with customer's specifications.
- Slabs > 100 mm thickness can be supplied glued together.
- Special shapes for **tailor-made pot-sets** such as **curved**, **grooved**, and **cut** items can be supplied in **all** dimensions and thicknesses according to the above and in complete accordance with clients' drawings.
- A hydrophobic coating can be applied at the production stage to make the material water repellent if required.
- Physical and thermal values are based upon regular, average test results.
- No warranty or guarantee is implied on the data which are given in good faith.
- Our technical data are determined according to the EN, ASTM, ISO and BS test methods or methods, which follow as closely as practicable these test methods.

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