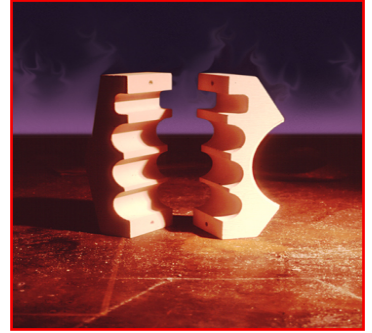


## Calcium Silicate boards

Calcium Silicate boards are asbestos-free, incombustible rigid thermal insulation materials used for applications in a wide variety of industries. The boards are reinforced with a very small amount of cellulose fiber in order to increase mechanical strength and machinability. The boards exhibit good compressive strength and low thermal conductivity, making it ideal for backup insulation in kilns and kiln cars. Calcium Silicate boards can be CNC machined into intricate shapes, which makes for ideal use as insulating parts in analytical equipment. Five grades are available.



Property	Super Firetemp®					
	Unit	Microcal 1100	Grade L	Grade M	Grade X	Grade S
<b>Classification Temperature</b>	°F °C	2012 1000	1700 927	1700 927	1700 927	1700 927
<b>Organic Content</b>	%	3	2	2	2	2
<b>Moisture Content</b>	%	7	4	4	4	4
<b>Bulk Density</b>	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	15 (250)	18 (288)	28 (410)	40 (640)	55 (880)
<b>Compressive Strength at 10% compression</b>	lb/in <sup>2</sup> (MPa)	220 (1.5)	450 (3.08)	900 (6.16)	2000 (13.79)	4200 (28.96)
<b>Flexural Strength</b>	lb/in <sup>2</sup> (MPa)	NA	260 (1.78)	550 (3.76)	1000 (6.89)	1400 (9.65)
<b>Specific Heat Capacity</b>	J/g·°C (BTU/lb·°F)	0.92 (0.22)	0.92 (0.22)	0.92 (0.22)	0.92 (0.22)	0.92 (0.22)
<b>Thermal Linear Change after firing 24 h @ 1700°F</b>	% % %	-1.8	-1.0 Length -1.0 Width -2.1 Thick	-1.0 Length -1.0 Width -2.1 Thick	-0.7 Length -0.8 Width -3.3 Thick	-0.6 Length, -0.7 Width -3.2 Thick
<b>Thermal Conductivity</b> @ 400°F @ 600°F @ 800°F	BTU·in/ft <sup>2</sup> ·h·°F (W/m·K)	0.49(0.070) 0.52(0.075) 0.59(0.085)	0.61(0.088) 0.67(0.097) 0.73(0.105)	0.66(0.095) 0.73(0.105) 0.80(0.115)	0.70(0.101) 0.75 (0.108) 0.80 (0.115)	0.97(0.139) 0.99 (0.142) 1.05 (0.150)