



## Super Caltemp® Gold 1700 BLOCK INSULATION

### DESCRIPTION

Super Caltemp Gold 1700 block is an inorganic, noncombustible high temperature insulation tailored for systems operating up to 1700°F (927°C), and is composed primarily of non-hydrous calcium silicate. The gold color provides positive identification that it is asbestos free. Super Caltemp Gold 1700 meets or exceeds the physical and thermal property requirements of ASTM C533, Type II.

### APPLICATIONS

Applications include, high temperature insulation for curved vessels and large diameter pipes, boiler walls, high temperature ducts, flues, industrial breaching and as refractory backer in furnaces, boilers and kilns. Super Caltemp Gold 1700 may be double layered in the field for greater thicknesses.

Since Super Caltemp Gold 1700 possesses high strength as well as exceptional insulation qualities, it can be readily machined into component parts of many sizes and shapes.

### AVAILABLE FORMS

Super Caltemp Gold 1700 is manufactured in 12" x 36" (305 mm x 914 mm) sheets, flat or 3-V scored. Thicknesses range from 1" (25 mm) through 3" (76 mm).

### PHYSICAL PROPERTIES

Density (Average) . . . . . 18 pcf (288 kg/m<sup>3</sup>)  
Maximum Recommended Continuous  
Service Temperature . . . . . 1700°F (927°C)  
Flexural Strength . . . . . 260 psi (1,793 kPa)  
Compressive Strength @ 10% Deformation . . . . 450 psi (3,103 kPa)  
Moisture Content, Normal Percentage  
of Dry Weight . . . . . 4

\* Thermal and physical properties shown represent typical average values derived in accordance with accepted test methods subject to normal manufacturing and experimental tolerances.

### STANDARD SIZES

Thickness . . . . . 1", 1½", 2", 2½", 3" (25, 38, 51, 64, 76 mm)  
Sheet Size . . . . . 12" x 36" (305 mm x 914 mm)  
Dimensional Tolerances  
Length and Width . . . . . ± 1/8" (3 mm)  
Thickness . . . . . ± 1/32" (0.8 mm)



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### SPECIFICATION COMPLIANCE

ASTM C 533 . . . . . Type II  
ASTM E 84: . . . . . Flame Spread: 0, Smoke Developed: 0  
ASTM E 136: . . . . . Passes (Noncombustible)  
ASTM C 795 . . . . . Passes  
MIL-I-2819 . . . . . Class 3

### LINEAR SHRINKAGE AFTER 24 HOURS AT TEMPERATURE, %

Temperature °F (°C)	Length	Width	Thickness	Weight Loss
1700°F (927°C)	1.0	1.0	2.1	9.6

### THERMAL CONDUCTIVITY ("k")

Mean Temperature		"k"	
°F	°C	Btu · in/(hr · ft <sup>2</sup> · °F)	W/m · °C
200	93	0.54	0.078
400	204	0.61	0.088
600	316	0.67	0.096
800	427	0.73	0.105

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BLOCK INSULATION

Industrial Insulation Group, LLC is a Calsilite/Johns Manville joint venture. IIG manufactures MinWool-1200® mineral fiber pipe, block and a variety of other insulations; Thermo-12® Gold Calcium Silicate pipe and block insulation; Super Firetemp® fireproofing board; SprouleWR-1200® Perlite pipe and block insulation; high temperature adhesives, and insulating finishing cement.



**Industrial Insulation Group, LLC**

*A Calsilite/Johns Manville Joint Venture*

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The physical and chemical properties presented herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Customer Service Office to assure current information. All Industrial Insulation Group products are sold subject to the IIG Limited Warranty and Limitation of Remedy. For a copy of the IIG Limited Warranty and Limitation of Remedy, email - [info@iig-llc.com](mailto:info@iig-llc.com).

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