



Super Firetemp® X HIGH TEMPERATURE INSULATION

DESCRIPTION

Super Firetemp X is an inorganic, noncombustible high temperature insulation for use in industrial equipment and building systems. It can be used on systems operating up to 1700°F (927°C). Composed primarily of lime, silica and reinforcing fibers. This product is white, essentially dust-free, and contains no asbestos, and meets or exceeds ASTM C 656, Type II, Grade 7.

ADVANTAGES

- Assured Fire Resistance
- Durable
- Economical

APPLICATIONS

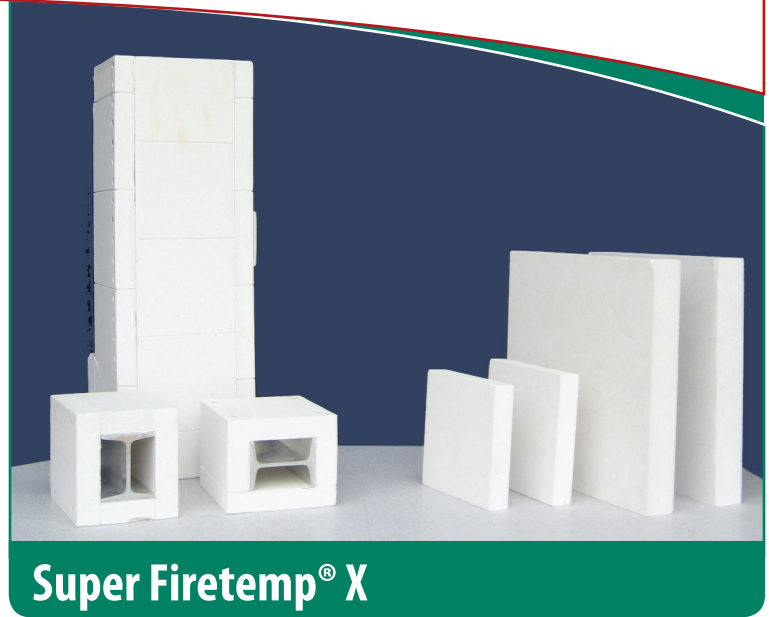
Super Firetemp X has high strength as well as exceptional insulation qualities. It can be readily machined into component parts of many sizes and shapes. Uses include oven and furnace walls, structural supports, against the shell of steel ladles and torpedo cars, behind the refractory brick and ramming castable of trundages to help keep the metal at a higher temperature and protect against thermal spalling of the refractory brick.

SPECIFICATION COMPLIANCE

ASTM C 656 Type II, Grade 7
 ASTM C 795 Passes
 ASTM E 72 Passes
 ASTM E 84
 Flame Spread/Smoke Developed 0/0
 ASTM E 136 Passes

PHYSICAL PROPERTIES

Density (Average) 40 pcf (641 kg/m³)
 Maximum Recommended Continuous
 Service Temperature 1700°F (927°C)
 Flexural Strength 1000 psi (6,895 kPa)
 Compressive Strength @ 10% Deformation 2000 psi (13,790 kPa)
 Screw Holding Strength (lb/screw), #8 Screw
 1/2" (13 mm) Penetration 80 lbs. (36.3 kg)
 7/8" (22 mm) Penetration 200 lbs. (90.7 kg)
 Surface Hardness (Units) (Per Type "D" Durameter)
 Top Surface 80
 Bottom Surface 80
 Moisture Content, Normal Percentage
 of Dry Weight 4%



Super Firetemp® X

LINEAR SHRINKAGE AFTER 24 HOURS AT TEMPERATURE

Temperature	1700°F (927°C)
Length	0.7%
Width	0.8%
Thickness	3.3%
Weight Loss	9.9%

ADDITIONAL INFORMATION AND MSDS

Technical information, weather protection, MSDS and other information available at www.iig-llc.com

AVAILABLE FORMS

Thickness 1/2", 3/4", 1", 1 1/2", 2" (13, 19, 25, 38, 51 mm)
 Sheet Size 4' x 4' (1.22 m x 1.22 m)
 4' x 8' (1.22 m x 2.44 m)
 Super Firetemp X is available with a sanded finish on one or both sides. The sanded surfaces are smooth and easy to machine.

THERMAL CONDUCTIVITY ("k")

Mean Temperature		"k"	
°F	°C	Btu · in/(hr · ft ² · °F)	W/m · °K
200	93	0.65	0.094
400	204	0.70	0.101
600	316	0.75	0.108
800	427	0.80	0.115

CONSOLIDATION UNDER LOAD (in/in)

Pressure		Deflection Under Load	Permanent Consolidation
psi	kPa		
200	1,379	0.008	0.002
500	3,448	0.014	0.002
1000	6,895	0.022	0.003
2000	13,790	0.059	0.005
3000	20,685	0.120	0.057
4000	27,580	0.243	0.164
5000	34,475	0.325	0.248
6000	41,370	0.364	0.287
7000	48,265	0.412	0.337

DIMENSION TOLERANCES

Length and Width +/- 1/8" (3.2 mm)
 Thickness +/- 1/8" (3.2 mm) Sanded One Side
 +/- 1/16" (1.6 mm) Sanded Two Sides

CODE COMPLIANCE

Super Firetemp undergoes stringent tests to comply with some of the toughest fire codes in the US and Canada.



ISO 9001 REGISTRATION

Super Firetemp X is manufactured under an ISO 9001:2000 registered quality system. This registration, along with regular independent third-party auditing for compliance, is your assurance that all our products deliver consistently high quality.

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.

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.



**CUSTOMER SERVICE,
TECHNICAL & GENERAL INFORMATION**
(800) 866-3234