

Fire Protection Systems

Super Firetemp® X

High Temperature Insulation

Description

Super Firetemp X is an inorganic, incombustible material. Chemically, Super Firetemp X features a Xonotlite crystal structure that results in exceptional strength and extremely low water of hydration. Super Firetemp X is composed primarily of lime, silica and reinforcing fibers. The product is white, essentially dust-free, and contains no asbestos.

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 and structural supports.

Personnel • Process • Planet

Available Forms

Thickness	
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.

Dimension Tolerances

Length and Width	+/- ½"	(3 mm)
Thickness	.+/- 1/16"	(4 mm)

Additional Information and MSDS

Available at www.iig-llc.com

Physical Properties

Density (Average) 40 pcf (641	kg/m³)
Maximum Recommended Continuous	
Service Temperature	927°C)
Flexural Strength	5 kPa)
Compressive Strength @ 10% Deformation . 2000 psi (13,79	0 kPa)
Screw Holding Strength (lb/screw), #8 Screw	
½" (13 mm) Penetration	6.3 kg)
%" (22 mm) Penetration	0.7 kg)
Surface Hardness (Units) (Per Type "D" Durameter)	
Top Surface	80
Bottom Surface	80
Moisture Content, Normal Percentage	
of Dry Weight	4%

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%

Specification Compliance

Consolidation Under Load (in/in)

Pressure		Deflection Under	Permanent
psi	kPa	Load	Consolidation
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

Thermal Conductivity ("k")

Mean Temperature		"k"		
°F	°C	Btu • in/(hr • ft² • °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	

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Code Compliance

Super Firetemp undergoes stringent tests to comply with some of the toughest fire codes in the U.S.



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.

For technical information and assistance regarding application information, code approvals, and performance specifications, call **1-800-872-0338**.

Super Firetemp

For Customer Service and Order Placement (800) 525-0017 Fax: (970) 858-6248 For Sales Information (800) 866-3234 Fax: (866) 325-8180 For Technical Information (800) 872-0338 Fax: (866) 384-9338



1110 16 Road Fruita, CO 81521 www.iig-llc.com The physical and chemical properties of the Super Firetemp® X 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. Any references to numerical flame spread or 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-Ilc.com.