Fire Protection Systems

Super Firetemp® S

High Temperature Insulation

Description

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

Applications

Since Super Firetemp S possesses both exceptional strength and insulation qualities, it can be readily machined into component parts of many sizes and shapes. Uses include oven and furnace walls and structural supports.

Dimension Tolerances

Available Forms

Super Firetemp L is available with a sanded finish on one or both

sides. The sanded surfaces are smooth and easy to machine.

4' x 8' (1.22 m x 2.44 m)

Length and Width	+/- ¼"	(3 mm)
Thickness	.+/- 1/16"	(4 mm)

Additional Information and MSDS

Available at www.iig-llc.com

Physical Properties

Density (Avg.)
Maximum Recommended Continuous
Service Temperature
Flexural Strength
Compressive Strength @ 10% Deformation . 4200 psi (28,959 kPa)
Screw Holding Strength (lb/screw) #8 Screw
½" (13 mm) Penetration
%" (22 mm) Penetration
Surface Hardness (Units) (Per Type "D" Durameter)
Top Surface
Bottom Surface
Moisture Content, Normal Percentage
of Dry Weight

Specification Compliance

ASTM	C 656, .	 	 	 Type	II, Grade 8
ASTM	C 795:	 	 	 	Passes
ASTM	E 136:	 	 	 	Passes

Dimensional Shrinkage for 1" (25 mm) Thick Full Size Sheet

Due to Moisture from Normal to Dry, Inches (mm)

Length	Width	Thickness
0.013 (.33)	0.009 (.22)	0.004 (.10)

Linear Shrinkage After 24 Hours At Temperature, %

Temperature °F (°C)	Length	Width	Thickness	Weight Loss
1700 (927)	0.6	0.7	3.2	10.4

Thermal Conductivity ("k")

Mean Temperature		"k"						
°F	°C	Btu • in/(hr • ft² • °F)	W/m•°K					
400	204	0.97	0.140					
600	316	0.99	0.143					
800	427	1.05	0.151					

Compressive Strength After Exposure to Soaking Heat for 24 Hours

Pressure		300°F (1	300°F (149°C)		400°F (204°C)		600°F (316°C)		800°F (427°C)		1000°F (538°C)	
psi	kPa	DF	PC	DF	PC	DF	PC	DF	PC	DF	PC	
500	3,448	0.008	0.000	0.008	0.001	0.052	0.001	0.050	0.002	0.056	0.002	
1000	6,895	0.012	0.000	0.013	0.001	0.056	0.002	0.050	0.002	0.060	0.002	
2000	13,790	0.017	0.001	0.017	0.002	0.062	0.002	0.053	0.002	0.066	0.002	
3000	20,685	0.022	0.001	0.019	0.002	0.066	0.002	0.068	0.003	0.072	0.004	
4000	27,580	0.028	0.001	0.022	0.002	0.076	0.002	0.076	0.004	0.079	0.005	
5000	34,475	0.030	0.001	0.027	0.004	0.076	0.003	0.086	0.006	0.100	0.010	
6000	41,370	0.044	0.002	0.037	0.004	0.084	0.014	0.099	0.011	0.125	0.014	

DF = Deformation Under Load, inches. To convert inches to millimeters in above table, multiply by 25.4.

PC = Permanent Consolidation, inches. To convert inches to millimeters in above table, multiply by 25.4.

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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 S 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® S 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.