

Thermal & Electrical Insulation Material Distributor

2965 Pittsburgh Road, Perryopolis, PA 15473 | 724-736-8108 AdvanceMaterialScience.com | Sales@AdvancedMaterialScience.com

Super Firetemp® M

DESCRIPTION

Super Firetemp M is an inorganic, noncombustible high temperature insulation for use in fireprotection systems. It can be used in systems operating up to 1800°F (982°C). Composed primarily of lime, silica and reinforcing fibers. This product is white, essentially dust-free, contains no asbestos, mercury or lead, and meets or exceeds ASTM C 656, Type II Grade 6.

ADVANTAGES

- Assured Fire Resistence
- Durable
- · Economica

APPLICATIONS

Since Super Firetemp M possesses both exceptional strength and insulation qualities, it can be readily machined into component parts of many sizes and shapes. Uses include fire-rated enclosures around structural steel, fire-rated walls, pipe supports, high temperature oven and refractory backup.

ASTM C 656 Type II Grade 6

SPECIFICATION COMPLIANCE

ASTM C 795	15
ASTM E 72	
ASTM E 84: Flame Spread/Smoke Developed	0
ASTM E 136 Noncombustibl	e
ASTM E 119	S
ASTM E 814	S
UL 263	rs
UL 1479	S
UL 1709	rs
NFPA 251	rs
Underwriters' Laboratories, Inc.	
Design Numbers	1
UL Canada Design Numbers	2
UBC Minimum Thickness	
R-Value @ 75°F	S

PHYSICAL PROPERTIES

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Density (Average)	. 28 pcf (449 kg/m ³)
11	
Service Temperature	
Flexural Strength	. 550 psi (3,792 kPa)
Compressive Strength @ 10% Deformation	. 900 psi (6,206 kPa)
Moisture Content, Normal Percentage	
of Dry Weight	4
Shippert	

LINEAR SHRINKAGE AFTER 24 HOURS AT TEMPERATURE, %

Temperature of (oc)	Length	Midth	000 0 1 1 1 1 Y 1 1 1 1 1 Y Y Y Y Y Y Y	Weight Loss
1700(927)	0.9	0.9	2.3	9.7

THERMAL CONDUCTIVITY ("k")

Mean Tem	perature	"k"		
۰F	۰C	Btu • in/(hr • ft² • °F)	W/m ∙ °K	
200	93	0.61	0.088	
400	204	0.66	0.095	
600	316	0.73	0.105	
800	427	0.80	0.115	

AVAILABLE FORMS

Thickness ½", ¾", 1", 1½", 2", 2½", 3" (13,19, 25, 38, 51, 64, 76 mm)
Sheet Size
Super Firetemp M 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	+/- 1/8" (3.2 mm)
Thickness	+/- 1/8" (3.2 mm) Sanded One Side
OF THE STORY OF THE STORY	+/- 1/16" (1.6 mm) Sanded Two Sides



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CODE COMPLIANCE

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

4"

21/2"

11/2"

1/2"

2"

3/4"



W 4 x 13 W 10 x 49

W 14 x 228

ISO 9001 REGISTRATION

Super Firetemp M 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.

TYPICAL RATINGS FOR SUPER FIRETEMP® M

Use this table to estimate the thickness of Super Firetemp M. The table represents the most common applications. More specific information is available from IIG. For Structural Steel fire protection, use Super Firetemp L unless the product is going to be exposed to physical abuse such as warehouses, then use Super Firetemp M.

THICKNESS REQUIRED FOR STRUCTURAL STEEL (E119)				TURAL ST	TEEL (E119)	THICKNESS OF SUPER FIRETEMP M FOR CABLE TRAYS AND		
		1hr	2hr	3hr	4hr	RACEWAYS		
	TS 4 x 4 x 3/16	1"	2"	3"	4"	15 min 30 min 45 min		
	TS 8 x 8 x 1/4	1"	11/2"	21/2"	3½"	E119 accorded 09 at 1" d fe11/2" (a) Td9		
	W 4 x 13	3/4"	11/2"	21/2"	31/2"	UL 1709 1" 1½"		
	W 10 x 49	3/4"	11/2"	2"	2½"			
	W 14 x 228		1/2"	3/4"	1"			
	THICKNESS RE	OUIRED E	OR STRUC	TURAL S	TEEL (UL1709)	WALL RATINGS		
	1111/1/1/1/2011/2011/2011/2011/2011/201	1hr	2hr	3hr	4hr	1 hr		
	TS 4 x 4 x 3/16	11/2"	21/2"	31/2"	41/2"	1½ hr		
	TS 8 x 8 x 1/4	1"	2"	3"	4"	2½ hr		