

FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AFROSPACE TOOLING

Foundry Service & Supplies, Inc.

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HI-TEMP INSULATIONS
CALCIUM SILICATE BOARDS
MILLBOARD AND BLANKET
PAPERS AND CEMENTS
CUTTING AND FABRICATING

Ultratemp X

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

Ultratemp-X is manufactured in 4' x 8' (1.22 m x 2.44 m) panels with a sanded finish on both sides. Thicknesses range from 1/2" (13 mm) through 2" (51 mm).

Since Ultratemp-X possesses 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.

Density (Average).....	40 pcf (641 kg/m ³)
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)
3/8" (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
Thickness*	1/2", 3/4", 1", 1 1/2", 2" (13, 19, 25, 38, 51 mm)
Sheet Size	4' x 8' (1.22 m x 2.44 m)
Dimensional Tolerances	
Length and Width	± 1/8" (3 mm)
Thickness	± 1/32" (0.8 mm)

* Other thicknesses available upon request.

ASTM C 656, Type II, Grade 7
ASTM C 795: Passes
ASTM E 72: Passes
ASTM E 119: 1, 2, 3, 4 Hours
ASTM E 84: Flame Spread: 0, Smoke Developed: 0
ASTM E 136: Passes
UL 263: 1, 2, 3, 4 Hours
UL 1479: 3 Hours
UL 1709: 1, 2, 3, 4 Hours

Temperature °F (°C)	Length	Width	Thickness	Weight Loss
1700 (927)	0.7	0.8	3.28	9.9

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

Mean Temperature		"k"	
°F	°C	Btu • in/(hr • ft ² • °F)	W/m • °K
200	93	.65	0.094
400	204	.70	0.101
600	316	.75	0.108
800	427	.80	0.115