

SUPER FIRETEMP® S

Super Firetemp S is an inorganic, non-combustible, 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 8.

ADVANTAGES

- Assured Fire Resistance
- Durable
- Economical

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, platen presses and structural supports.

AVAILABLE FORMS AND SIZES

Thickness ½", ¾", 1", 1½" (13, 19, 25, 38 mm)
 Sheet Size 4' x 8' (1.22m x 2.44m)
 4' x 8' (1.22 m x 2.44 m)

Super Firetemp S 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
 +/- 1/16" (1.6 mm) Sanded Two Sides

SHRINKAGE AFTER 24 HRS. AT TEMPERATURE

Linear Shrinkage

Temperature		Shrinkage			
°F	°C	Length	Width	Thickness	Weight Loss
1700	927	0.6%	0.7%	3.2%	10.4%

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

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

Length	Width	Thickness
0.013 (0.33)	0.009 (0.22)	0.004 (0.10)

THERMAL CONDUCTIVITY

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



Operating Temperature Limit: 1700°F (927°C)

SPECIFICATION COMPLIANCE

ASTM C656	Type II, Grade 8
ASTM C795 Corrosion: Austenitic Stainless Steel	Passes
ASTM E136 Non-Combustible	Passes
Density (Avg.)	55 pcf (881 kg/m³)
Maximum Recommended Continuous Service Temp.	1700°F (927°C)
Flexural Strength (Avg.)	1400 psi (9653 kPa)
Compressive Strength @10% deformation (Avg.)	4200 psi (28959 kPa)
Screw Holding Strength (lb/screw), #8 Screw 1/2" (13 mm) Penetration 7/8" (22 mm) Penetration	150 lbs. (68.0 kg) 400 lbs. (181.4 kg)
Surface Hardness (Units) (Per Type "D" Durameter)	Top Surface - 80 Bottom Surface - 80
Moisture Content, Normal % of Dry Weight (Avg.)	4%

COMPRESSIVE STRENGTH AFTER EXPOSURE TO SOAKING HEAT FOR 24 HOURS

Pressure		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

CODE COMPLIANCE

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

**QUALITY STATEMENT**

Johns Manville products are designed, manufactured and tested to strict quality standards in our own facilities. This along with third party auditing is your assurance that this product delivers consistent high quality.

ISO 9001 CERTIFICATION

Super Firetemp S is manufactured and tested in our own facility under an implemented Quality Management System which is certified to be in accordance with ISO 9001 quality standards.

ADDITIONAL INFORMATION AND SDS

Please visit our website at www.jm.com/industrial
Customer Service, Technical & General Information: (800) 866-3234

PRODUCT CERTIFICATION

When ordering material to comply with any government specification or any other listed specification, a statement of that fact must appear on the purchase order. Government regulations and other listed specifications require specific lot testing, and prohibit the certification of compliance after shipment has been made. There may be additional charges associated with specification compliance testing. Please refer to IND-CSP-3 for Certification Procedures and Charges. Call customer service for more information.



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Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of the Super Firetemp® S listed 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 Regional Sales Office nearest you for current information.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville thermal insulation and systems, visit www.jm.com/terms-conditions or call (800) 654-3103.