

Thermafiber® K-FAC® SR

Semi-Refractory Felt

- + Used at service temperatures up to a maximum of 1,900°F (1,038°C)
- + Easily fabricated and installed
- + Non-corrosive
- + High Density



Thermafiber K-FAC SR is used in high heat ovens, furnaces, precipitators, and other applications.

Minimum
70%
Recycled
Content



K-FAC SR provides high temperature insulating properties with excellent workability and easy application.



Thermafiber®



Made in the USA

Thermafiber® K-FAC® SR

Description:

THERMAFIBER K-FAC SR is a nominal 14lb./cu. ft. density semi-refractory felt that provides high-temperature insulating properties with excellent workability and easy application. K-FAC SR performs effectively over a wide range of uses, especially when replacing mineral wool board and calcium silicate insulations in high heat ovens, furnaces, precipitators, fire door cores and many other similar installations. Not for use in load-bearing situations or to be subjected to direct flame impingement.

Up to 1900°F Service Temperature:

K-FAC SR is recommended for maximum hot-surface temperature applications up to 1900°F one side (enclosed panel only) per ASTM C 356 and C 411. Uses above 1400°F are to be limited to static applications. At temperatures above 1400°F, vibrations may cause degradation of the insulation. The first time this material is put into service only, heat rise should not exceed 15°F per minute. This will allow the binder to dissipate uniformly. Thermal conductivity is not affected.

Installation:

Material can be grooved, routed, slotted, die-cut, etc. to desired size and shape. Attachment is typically by impaling on pins or studs.

Standard Sizes¹:

Density	Thickness ²	Widths ³	Lengths ³
Nominal 14 pcf	1" – 4"	6", 12", 24"	36", 48"
Tolerances	+1/4" -1/8"	± 1/8"	± 1/2"

¹Product can be packaged in cartons or on pallets

²Thickness available in 1/2" increments. Thicknesses over 2" are laminated and recommended for use in flat form only. Certain types of fabrication may cause separation of the laminations. If laminating is not desired, the product can be double layered with joints staggered.

³Custom sizes available upon request

Technical Data:

Thermal Conductivity ¹ per ASTM C 177 or C 518						
K-factor – Btu • in/hr • ft ² • °F						
300°F	400°F	500°F	600°F	700°F	800°F	900°F
0.37	0.43	0.48	0.57	0.65	0.75	0.85

¹Degrees represent mean temperature

Specific Airflow Resistance of 14lb./cu ft. density Industrial Felt per ASTM C 522	
Thickness	Specific Airflow Resistance (mks-rays)
1"	2,500
2"	5,000
3"	7,500
4"	10,000

Temperatures above 450°F require mechanical support

Standards Compliance:

ASTM C 612	Type IVA
ASTM C 356	Linear shrinkage <2% @ 1200°F (650°C)
ASTM C 1104	Absorption less than 1% by volume
MIL-I-24244	Meets applicable analysis for austenitic stainless steel
ASTM C 165	590 psf @ 10% compression
ASTM E 84	Flame Spread 0 Smoke Developed 0
ASTM C 411	Maximum Hot Surface Temperature One Side (enclosed panel): 1900°F (Static Condition); 1400°F (Dynamic Condition)

Withstands ASTM E 119 temperature for over 5 hours when mechanically supported

For Further Information:

For additional information about these or other Thermafiber products contact us at 1-888-834-2371 or visit our website www.thermafiber.com.

Notice:

THERMAFIBER, Inc. shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. THERMAFIBER liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing within thirty (30) days from date it was or reasonably should have been discovered.

Submission Approvals:

Job Name	
Contractor	Date

