

Thermafiber® K-FAC® 19



High-Temperature Board

- + Used at service temperatures up to a maximum of 1,900°F (1,038°C)
- + Easily fabricated and installed
- + Moisture repellent
- + Non-corrosive
- + High density
- + Standard sizes in stock for quick shipment

Minimum
55%
Recycled
Content

Thermafiber K-FAC 19 is used in incinerators, furnaces, kilns, boilers, and other applications where high-temperature insulating materials are required.

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Description:

THERMAFIBER K-FAC 19 high temperature board provides high strength stability and excellent workability. It is composed of mineral fiber and selected mineral additives. The density allows K-FAC 19 to meet a variety of installation requirements. An organic binder that will dissipate above approx 475°F is used for low temperature handling. On initial start-up, heat rise should not exceed 15°F per minute to allow the binder to dissipate without excessive temperature rise. This will occur only on the first startup and will not adversely affect the insulation value. An inorganic binder system allows K-FAC 19 to be used at service temperatures to a maximum of 1900°F on the hot surface of the enclosed panel only. Not to be subjected to direct flame impingement as a hot face material. K-FAC 19 has a special additive that provides water repellency so that the board will not absorb moisture from adjacent refractory materials.

Product Options:

- Standard sizes in thickness of ¾", and up to 4" boards
- Custom sizes available upon request
- Packaged in cartons

Installation:

Material can be cut quickly and easily with a knife or saw for fabrication and application at the jobsite. Attachment is typically by impaling on pins or studs.

Standard Sizes:

Thickness ⁽¹⁾	Width ⁽²⁾	Length
¾"	6", 12", 24"	36", 48"
1"-4" ⁽³⁾	6", 12", 24", 36"	36", 48"
⁽¹⁾ Thickness tolerance: non-laminated +/- 1/64", laminated +/- 1/32"		
⁽²⁾ Width & Length tolerance: non-laminated +/- 1/32", laminated +/- 1/32" (dimensions subject to no greater than +/- 1/8" offset on multiple plies)		
⁽³⁾ Available in ½" increments. Thicknesses over 1" are laminated		

Technical Data:

Thermal Conductivity ⁽¹⁾ per ASTM C177					
K-factor-BTU – in./hr. – ft ² – °F					
400° F	500° F	600° F	700° F	800° F	900° F
0.46	0.51	0.56	0.64	0.71	0.80
⁽¹⁾ Degrees represent mean temperature					

Physical Properties			
Nom. Density – pcf ⁽¹⁾	Minimum compressive strength – psf at 10% compression	Linear shrinkage, max./24 hr. at 1900°F ⁽²⁾	Modulus of rupture – psi min.
18.5	4,800	2.50%	95
⁽¹⁾ Density tolerance: 1lb/cu. Ft			
⁽²⁾ Not for use at service temperatures over 1,900°F			

Standards Compliance:

ASTM E 84 Flame Spread 25 Smoke Developed 5
 ASTM C612 Type V