

Typical Applications

Fiberfrax Bulk Fiber is used as a high temperature fill or packing material in a variety of high temperature applications.

- Expansion joints
- Furnace base seals
- Packing around burner tiles
- Tube seals
- Glass feeder bowl insulation

Bulk Fiber is also used for the manufacture of other Fiberfrax product forms.

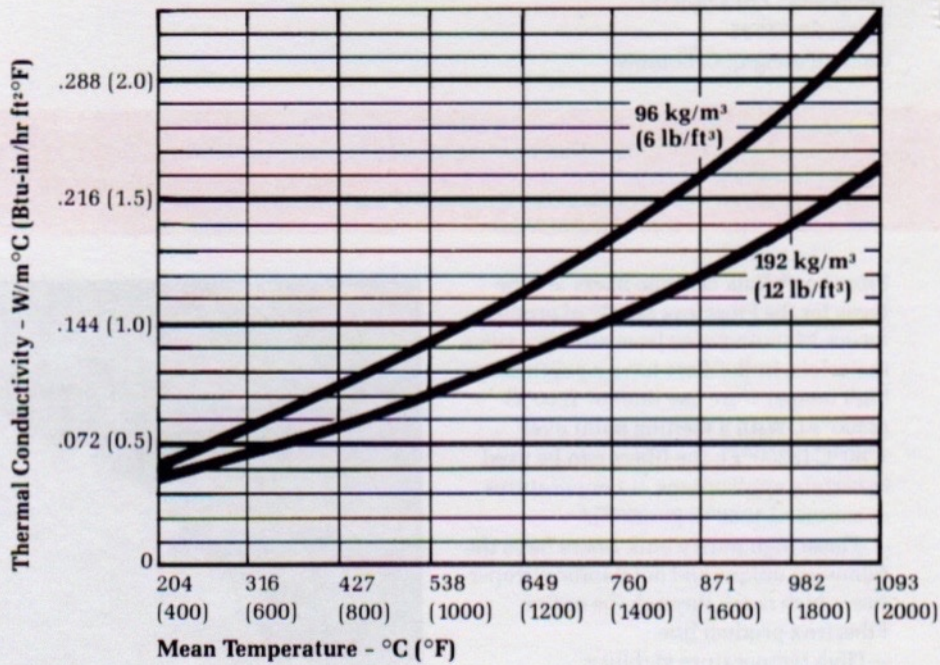
- Felts
- Board
- Paper
- Vacuum cast shapes
- Cements, castables and moldables
- Laminates

Specifications

Fiberfrax Bulk Fiber conforms to U.S. Coast Guard requirements for "Incombustible Materials", subpart 164.009. For additional conformations, see list of specification approvals.

Fiberfrax Bulk Fiber

Thermal Conductivity vs Mean Temperature (per ASTM C-177)**



Fiberfrax Bulk Fiber - 96 kg/m³ (6 lb/ft³)**

Hot Face °C (°F)	Insulation Thickness - mm (in)						
	Cold Face Temperature - °C (°F)						
	13 (½)	25 (1)	38 (1½)	51 (2)	76 (3)	102 (4)	127 (5)
538 (1000)	176 (348)	123 (254)	99 (211)	86 (186)	70 (158)	61 (142)	55 (131)
649 (1200)	213 (416)	150 (302)	121 (249)	103 (218)	83 (182)	72 (161)	64 (148)
760 (1400)	252 (485)	178 (353)	143 (290)	122 (252)	98 (208)	84 (183)	74 (166)
871 (1600)	290 (554)	207 (405)	167 (333)	143 (289)	114 (237)	97 (207)	86 (187)
982 (1800)	329 (624)	237 (459)	192 (378)	164 (327)	131 (267)	111 (232)	98 (209)
1093 (2000)	367 (692)	267 (512)	217 (422)	186 (366)	148 (298)	126 (258)	111 (231)
1204 (2200)	405 (761)	297 (567)	243 (469)	208 (407)	167 (332)	142 (287)	125 (257)
1260 (2300)	424 (796)	312 (597)	256 (492)	220 (428)	177 (350)	150 (302)	132 (270)

Fiberfrax Bulk Fiber - 192 kg/m³ (12 lb/ft³)**

Hot Face °C (°F)	Insulation Thickness - mm (in)						
	Cold Face Temperature - °C (°F)						
	13 (½)	25 (1)	38 (1½)	51 (2)	76 (3)	102 (4)	127 (5)
538 (1000)	159 (318)	112 (233)	91 (195)	78 (173)	64 (147)	56 (133)	51 (124)
649 (1200)	191 (375)	133 (272)	108 (226)	92 (198)	75 (167)	65 (149)	59 (138)
760 (1400)	223 (433)	157 (314)	126 (259)	108 (226)	87 (188)	74 (166)	67 (152)
871 (1600)	256 (493)	181 (357)	145 (293)	124 (255)	99 (210)	85 (185)	76 (168)
982 (1800)	289 (553)	206 (402)	166 (330)	141 (286)	113 (235)	96 (205)	85 (185)
1093 (2000)	312 (593)	223 (433)	180 (356)	154 (309)	122 (252)	104 (220)	92 (198)
1204 (2200)	344 (651)	248 (478)	201 (393)	172 (341)	137 (279)	117 (242)	103 (217)
1260 (2300)	361 (681)	261 (501)	212 (413)	181 (358)	144 (292)	123 (253)	108 (227)

**All heat flow calculations are based on a surface emissivity factor of .90, an ambient temperature of 27°C (80°F), and zero wind velocity, unless otherwise stated. All thermal conductivity values for Fiberfrax materials have been measured in accordance with ASTM Test Procedure C-177. When comparing similar data, it is advisable to check the validity of all thermal conductivity values and ensure the resulting heat flow calculations are based on the same condition factors. Variations in any of these factors will result in significant differences in the calculated data.



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