

DESCRIPTION

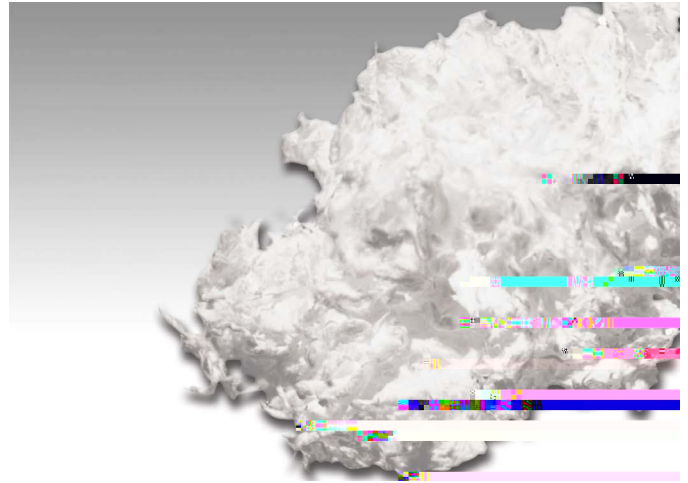
Q-Fiber is a high-purity amorphous silica fiber with a surface area of 2300-2500 m²/g. It is a white, fibrous material that is highly resistant to chemical attack and has excellent thermal stability. It is used in a variety of applications, including as a catalyst support, a filler in composites, and a component in specialty papers.

ADVANTAGES

Q-Fiber offers several advantages over other silica fibers. It has a high surface area, which makes it an excellent catalyst support. It is also highly resistant to chemical attack, making it suitable for use in harsh environments. Additionally, it has excellent thermal stability, allowing it to be used in high-temperature applications. Its fibrous nature also makes it a good filler in composites and a component in specialty papers.

SURFACE AREA

Q-Fiber has a surface area of 2300-2500 m²/g. This high surface area is due to its fibrous nature and small particle size. It is measured using a nitrogen adsorption-desorption method.



TYPE

Q-Fiber

TEMPERATURE LIMIT

Q-Fiber: 2300 F (1260 C)
Q-Fiber: 1800 F (982 C)

APPLICATIONS

Q-Fiber is used in a variety of applications, including as a catalyst support, a filler in composites, and a component in specialty papers. It is also used in high-temperature applications, such as in the production of high-strength fibers and in the manufacturing of specialty glasses. Its high surface area and chemical resistance make it an ideal material for these applications.

A
A/C C
C

PROPERTIES

C-F
C
H-F
H-E
E
E
H

Q-FIBER® AMORPHOUS HIGH-PURITY SILICA FIBER

BAEIAFAACAEFI AIGCE

THERMAL CONDUCTIVITY (k) PER ASTM C 518

Density		75 F (24 C)		500 F (260 C)		1000 F (538 C)	
(lb/in ³)	(g/cm ³)	Btu-in/(h-ft ² -F)	(W/m-K)	Btu-in/(h-ft ² -F)	(W/m-K)	Btu-in/(h-ft ² -F)	(W/m-K)
6.0	96	0.23	0.033	0.41	0.058	0.72	0.104

SHRINKAGE*

F	C	Shrinkage (%)		
1000	538	0.7	0.8	0.9
1200	649	1.4	1.5	1.0
1400	760	1.8	2.2	1.8
1600	871	2.0	2.2	2.0
1800	982	2.6	4.0	9.0
2000	1093	6.2	17.0	40.0

* Density = 6.0 (96 g/cm³)



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