



Alumina-Silica Bulk Fiber Type ASBF



General Information

ZIRCAR Ceramics' Alumina-Silica Bulk Fiber are high-purity alumina-silica fibers exhibiting high dimensional stability in industrial applications with temperatures as high as 1260°C (2300°F). These fibers also exhibit light weight, low thermal conductivity, low thermal mass and immunity to thermal shock. They offer excellent chemical stability and resistance to attack from most corrosive agents (excluding hydrofluoric acid, phosphoric acid and strong alkalis). These fibers contain no organics or chemically-combined-water.

Two varieties are offered:

ASBF is a long bulk fiber useful as feedstock for a number of manufacturing processes as well as bulk packing and fill.

ASBF-1 is specially processed for use in vacuum-forming of rigid shapes. It is generally free of unfiberized "shot" and shorter than ASBF.

Characteristics & Properties

Type	ASBF	ASBF-1
Composition, %		
Al ₂ O ₃	47-52	
SiO ₂	48-53	
Na ₂ O	< 0.5	
Iron Oxides	< 0.1	
TiO ₂	< 0.1	
Organics	0	
Color	White	
Fiber Density, g/cc (pcf)	2.73 (171)	
Average Diameter, microns	1.5 - 2.5	
Maximum Use Temp.*, °C (°F)	1260 (2300)	
Melting Point, °C (°F)	1760 (3200)	
Fiber Index**, %	> 40	> 65
Fiber Length, cm (in.)	< 10 (4.0)	2.5-5 (1-2)
Settled Density, kg/m ³ (pcf)	N/A	<96(<6.0)

The data presented herein is intended to help the user to determine the appropriateness of this material for their application.

This data is a nominal representation of this product's properties and characteristics and therefore should not be used in preparing specifications.

* Maximum use temperature is dependent on variables such as stresses, both thermal and mechanical, and the chemical environment that the material experiences. ** Fiber Index by conical elutriator method.

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Technical Data Bulletin

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Suggested Applications

Vacuum-forming of low-density, alumina-silica fibrous ceramic materials.

Furnace insulation packing around sight tubes, ports, expansion joints, and masonry cracks.

Availability of Standard Bulk Fiber

ITEM #	DESCRIPTION
D3167	ASBF, 40 LB
A17511	ASBF-1, 1 KG

To Order

Standard fiber: order online or specify quantity, item # and description.

Standard bulk fiber is available for immediate shipment from stock.

Custom preparations, such as fiber milled to small aspect ratios, are available. Custom packaging is also available upon request.



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