

A photograph of a large industrial facility, likely a glass manufacturing plant, at dusk. The scene is filled with tall cylindrical tanks, complex piping, and scaffolding. The sky is a deep blue, and the facility is illuminated by warm yellow lights, creating a dramatic contrast. The overall atmosphere is industrial and modern.

LAUSCHA

AR Glass Microfiber

Product Information Sheet

Description

Alkegen has developed an alkali resistance glass microfiber manufactured to tight dimensional and chemical tolerances for use as a technical additive to improve alkali resistance.

Our product increases strength and facilitates process improvements in a number of applications. It can also replace asbestos and has a lower regulatory classification.

Typical Applications

- Specialty Cement
- Alkali Resistant Filtration Materials

Alkegen AR Glass Microfiber has the following features

- Excellent Resistance to Alkali Attack
- Virtually Shot Free
- Consistent Glass Chemistry and Purity
- Stable Diameter Distribution
- High Specific Surface Area (SSA)
- Long Length to Diameter Ratio (L:D)

The Alkegen logo features the word "ALKEGEN" in a bold, blue, sans-serif font. A green, curved line arches over the letters "L" and "K", resembling a stylized wave or a protective shield.

Chemical Properties

Glass Composition	AR-GLASS (%)
SiO ₂	55.0 - 61.0
Al ₂ O ₃	< 1.0
B ₂ O ₃	< 0.25
Na ₂ O	11.0 - 13.0
K ₂ O	2.0 - 3.0
CaO	4.0 - 5.0
MgO	< 0.5
Fe ₂ O ₃	< 0.5
SO ₃	< 0.2
TiO ₂	< 5.0
ZnO	-
BaO	-
ZrO ₂	> 14.5
F ₂	< 1.0



Typical Properties

Fiber Grade	Equivalent Fiber Diameter	Nominal Air Resistance (mm H ₂ O)	Shot Content (% weight)	
			Max	Avg.
AR-08-F	0.8	81	0.5	2.1
AR-10-F	1.0	35		1.4
AR-15-F	1.5	23		1.2

*Measured air resistance (AR) at a face velocity of 10.3 fpm using a laboratory prepared hand sheet having a basis weight of 84.5 lbs./ 3MSF.

Alkaline Resistance Behavior in hot saturated sodium hydroxide solution: ca. 33% mass loss per unit of SSA in m²/g

Other Formats

This fiber can be milled or chopped to produce a finer product form. We have capacity to manufacture a variety of product forms including papers, vacuformed shapes, and felts. Details upon request. Other average fiber diameters can be produced on request.

Note: All product data is nominal and does not represent a specification. All data and statements concerning these products may be considered as being indicative of representative properties and characteristics obtainable. We make no warranty, expressed or implied, concerning actual use or results because of industry specific influences.

Form A-5184
Effective 04/23
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