

Denka® Alcen™ Bulk

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Denka Alcen Bulk fibers are high purity polycrystalline fibers designed for use in applications up to 2912°F (1600°C). They are produced by a unique sol-gel process which ensures the highest level of chemical purity, while minimizing shot content (un-fiberized material).

Denka Alcen Bulk is widely used to increase the maximum use temperature of many vacuum formed ceramic fiber compositions.

Fiber Type

Polycrystalline Wool (PCW)

Features

- Resistant to chemical attack
- Stable with very low linear shrinkage at temperatures up to 2912°F (1600°C)
- Low thermal conductivity
- Thermal shock resistant

Applications

- Vacuum Formed Boards and Shapes
- High Temperature Packing
- Heat and Hydrogen Gas Resistant Applications

Physical Properties

Color	white
Classification Temperature °F (°C)	2912 (1600)
Melting Temperature, °F (°C)	3632 (2000)
Fiber diameter, μm	3 - 5
Shot Content	negligible

Chemical Composition (B97T4), %

Alumina, Al ₂ O ₃	97
Silica, SiO ₂	3
Other	<0.5

Mineral Composition (B97T4), %

Al ₂ O ₃	40 - 49
Mullite	≤ 10