



TaoFibre[®] Ceramic Bulk Fiber

TaoFibre ceramic fibers are a family of high-temperature fibers designed to be used in a variety of industrial and commercial applications. Made from alumina-silica materials, TaoFibre fibers are chemically inert.

TaoFibre bulk fibers are available in a variety of chemistries and diameters which can service a wide variety of applications. In addition, these fibers can be further modified by chopping or by removal of the unfiberized particles (called shot). Lubricants can also be added to the fiber to enhance fiber properties. TaoFibre fibers exhibit excellent chemical stability and resistance to attack from most corrosive agents. Exceptions include hydrofluoric acid, phosphoric acid and strong alkalis. TaoFibre fibers also effectively resist oxidation and reduction. If wet by water or steam, thermal and physical properties are restored upon drying. TaoFibre fibers contain no water of hydration.

Features/Advantages

- High-temperature stability
- Low thermal conductivity
- Low heat storage
- Excellent thermal shock resistance
- Light weight

Typical Applications

- High-Temperature boards, felts, and papers
- Combustion Chambers for boilers
- Riser sleeves for molten metal casting
- Fireplace logs and panels for gas fireplaces
- Tap out cones for molten metal applications
- Specialized vacuum-formed shapes
- Expansion joints
- Furnace base seals
- Tube Seals
- Burner tile packing
- Chimney insulation

Turn back for more specific product information

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TaoFibre® Ceramic Bulk Fiber

Typical Physical Properties

	Standard Grade	High-Purity Grade	Zirconium Grade
Color	Off White	White	White
Maximum Use Limit	1260°C (2300 °F)	1260°C (2300 °F)	1426°C (2600 °F)
Continuous Use Limit	1000°C (1832 °F)	1100°C (2012 °F)	1350°C (2461 °F)
Average Fiber Diameter	3 - 4.5 microns	3 - 4.5 microns	3 - 4.5 microns

Standard Packaging: 50 lb/bag or 25 lb/box

Typical Chemical Composition

	Standard Grade	High-Purity Grade	Zirconium Grade
Al ₂ O ₃	45%	47-49%	39-40%
SiO ₂	52%	50-52%	38-45%
ZrO ₂	---	---	15-17%
Fe ₂ O ₃	< 1.2%	0.2%	0.2%
K ₂ O+Na ₂ O	≤ 0.5%	0.2%	0.2%

Refer to the Material Safety Data Sheet (MSDS) for recommended work handling and product safety information.

Data are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes. The Information, recommendations, and opinions set forth are offered solely for consideration, inquiry, and verification, and are not, in part or total, to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice patented invention without a license.