



Zircar Zirconia, Inc.
"Manufacturer of the original ZIRCAR products" ©

PURE ZIRCONIA FIBERS and TEXTILES TYPE ZO



Face of Pure Zirconia Knit Cloth, Type ZOK-15

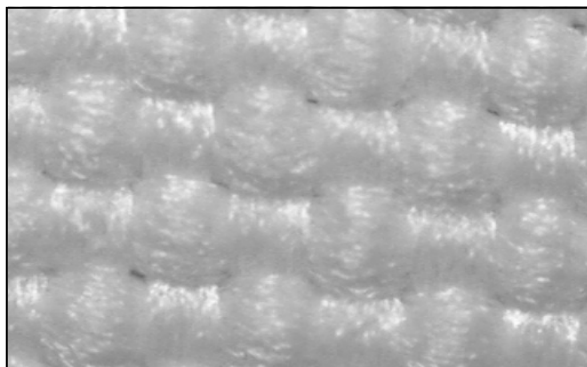
FEATURES

- High Purity Zirconia
- High Temperature Stability
- Low Thermal Conductivity
- Excellent Thermal Shock Resistance
- No Outgassing
- Six Different Product Formats Offered
- Available 'Off the Shelf'

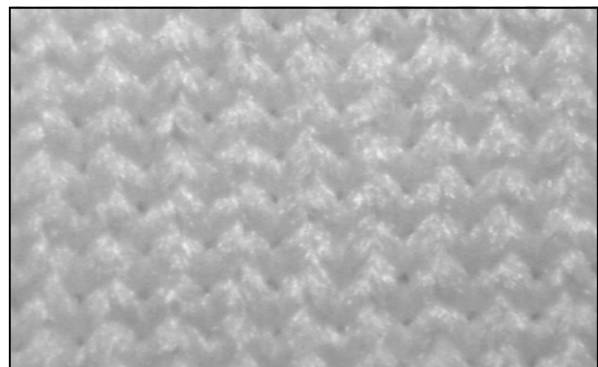
Zircar's unique process for manufacturing yttria-stabilized zirconia cloths and felts is also used in the production of pure zirconia refractory fibers and textiles without stabilizers. For those processes which are intolerant of yttria, these unstabilized pure zirconia fiber products provide much of the same high performance insulating benefits. Pure zirconia fibers exist in the monoclinic crystal phase and appear white in color. Our high purity zirconia fiber and textiles are offered in six different standard product forms; bulk fiber Type **ZOBF**, two felts Types **ZOF-50** and **ZOF-100** and three types of knit cloth Types **ZOK-15**, **ZOW-15** and **ZOW-30**.

APPLICATION INFORMATION

Pure zirconia cloth is used as high temperature insulation for advanced energy systems.



Pure Zirconia Woven Cloth, Type ZOW-15



Back of Pure Zirconia Knit Cloth, Type ZOK-15

Zircar Zirconia, Inc.
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Product Data
Bulletin #E-04
January 2004
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PROPERTIES & CHARACTERISTICS

	ZOF-100
Composition, Wt% ZrO ₂ *	99+
Composition, Wt% SiO ₂	0.22
Composition, Wt% CaO	0.04
Composition, Wt% Na ₂ O	0.02
Composition, Wt% Y ₂ O ₃	<0.001
Melting Point °C (°F)	2590 (4694)
Loss on Ignition, 1 hr at 950°C (1742°F), Wt%	0.34
Outgassing	Nil
% Shrinkage, 1 hour at 1650°C (3002°F)	0

* 1-2 % hafnia occurs naturally with zirconia and does not affect performance.

ORDERING INFORMATION

Pure Zirconia fiber products are available in six product forms, which are listed in the table below with their ordering item number. Please contact our Sales Department for pricing

Standard Sizes	Item Number
ZOF-50, FELT, 12" X 12" X ~0.05"	E04A01
ZOF-100, FELT, 12" X 12" X ~0.1"	E04B01
ZOK-15, TRICOT KNIT CLOTH, 12" X 12" X ~0.015"	E04C01
ZOW-15, SQUARE WEAVE CLOTH, 12" X 12" X ~0.015"	E04D01
ZOW-30, SATIN WEAVE CLOTH, 12" X 12" X ~0.03"	E04E01
ZOBF, BULK FIBER, 1 pound	E04F01

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