



Specifications

1. Company & Product Information

Supplier Name:
UniTherm International
711 Jones Street
Lewisville, Texas 75057

Product:
Ceramic Fiber Blanket

2. Characteristics

Chemical and thermal stability
Low thermal shrinkage
Excellent tensile strength
Excellent handling strength
Excellent hot strength
Light weight
Resiliency
Thermal shock resistance

Low thermal conductivity
Low heat storage
High heat reflectance
Excellent corrosion resistance
Excellent fire protection
Excellent sound absorption
Excellent thermal stability

3. Applications

Boiler and water heater linings for combustion areas
Ceramic kiln linings
Industrial furnace linings
Backup insulation for castables, bricks, etc
High temperature gasket
Usable anywhere high temperature insulation is required
Field steam generator lining
Atmosphere furnace lining

Nuclear insulation application
High temperature filtration
Annealing cover seals
Incineration equipment and stack linings
Glass furnace crown insulation
High temperature gasketing
Primary reformer header insulation

4. Technical Index

Grade	WM	STD	HP	HA	HZ
Classification Temperature	2012°F	2300°F	2300°F	2480°F	2606°F
Working Temperature	1832°F	1922°F	2012°F	2192°F	2462°F
Density (lb/ft³)	6 - 8lb/ft ³	6 - 8lb/ft ³	6 - 8lb/ft ³	8 - 10lb/ft ³	8 - 10lb/ft ³
Line Shrinkage (%) after 24 hours	4 (1832°F)	3 (1832°F)	3 (2012°F)	3 (2282°F)	3 (2462°F)
Tensile Strength (Mpa)	0.04	0.04	0.04	0.04	0.04

5. Properties

Color: White
Continuous Temperature: 2300°F



Specifications

Melting Point	2900° F
Fiber Diameter	2 - 4 Microns
Fiber Length	8" Average
Linear Shrinkage	Less that 3% at 1900° F
Density PCF	4,6,8,10
Thickness	1/2"-2"

6. Chemical Analysis

Grade	WM	STD	HP	HA	HZ
Thermal Conductivity w/m.k.	0.09 (752°F)	0.09 (752°F)	0.09 (752°F)	0.13 (1112°F)	0.76 (1112°F)
Density (lb/ft³)	0.18 (1472°F)	0.18 (1472°F)	0.18 (1472°F)	0.28 (1832°F)	0.22 (1832°F)
Al₂O₃	44	46%	47-49	52-55	39-40
SiO₂	52	54%	50-52	44-47	-
Fe₂O₃	<1.2%	<1.2%	<1.2%	0.2	0.2
Na₂O	.25%	.25%	.1%	.1%	.1%
K₂O	.25%	.25%	.1%	.1%	.1%
ZrO₂	0	< .5	0	0	15 - 17%
Thickness of Fiber (inches)	1/2" - 2"	1/2" - 2"	1/2" - 2"	1/2" - 2"	1/2" - 2"
Leachable Chlorides	>10ppm				
Regular Size	1" x 24" x 25' 1" x 48" x 25'				
Quality System Certificate	ISO 9001 - 2000, ASTM				
Color	white				

7. Thermal Conductivity

Temperature	8# Cu. Ft.	6# Cu. Ft.
600° F	0.40	0.44
1000° F	0.75	1.06
1400° F	1.15	1.90

8. Description

Ceramic Fiber Blanket is produced from exceptionally pure oxides of alumina and silicate using the spinning process. The resultant quality spun fibers have been optimized for high handling strength. Ceramic Fiber Blanket is available in a wide variety of densities and sizes. Ceramic Fiber Blanket offers excellent handle ability and high temperature stability which allows it to meet a wide range of hot face and back up insulation applications in furnaces, kilns and other equipment requiring high temperature heat containment.



Specifications

1. Company & Product Information

Supplier Name:
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Product:
 Fiberglass Binding

2. Description

Premium quality tapes are carefully woven and sized using fiberglass yarns. Applications include logging of all types, pipe insulation wrap, electrical insulations. Resistant to most chemicals, for temperatures to 1000°F has strength and flexibility.

3. Application Data

Tape Thickness:		1/32" .8mm	1/16" 1.6mm	1/8" 3.2mm	1/4" 6.4mm
Item Number		Gi9P752	G36P752	G65P752	G120P7752
Width	Code	lbs/100ft	lbs/100ft	lbs/100ft	lbs/100ft
1" 2.5 cm	08	1.0	2.1	4.2	9.8
1 1/2" 3.8cm	10	1.4	3.0	6.2	14.6



Specifications

1. Company & Product Information

Supplier Name:
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Product:
Fiberglass Strap

2. Description

1 1/2" Fiberglass Tape

Color:	Many Colors
Breaking:	Break strength rating for comparison purposes only on this product is 3620lbs. Synthetic webbings are best cut with a hot knife to ensure sealing.
Dimensions:	Width Tolerance is + - 0.5 mm, 840 Denier. Standard heat and UV radiation.
Features:	1.9 mm thickness, catch cord applied.
Fire Retardancy:	Motor Vehicle Safety Standard 302.
Roll Size:	50 yards
Uses:	General purpose webbing for garment and bag applications.
Yarn Count:	Warp: 840 D Weft: 840 D



Specifications

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Supplier Name:
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Product:
 PTFE Coated Fiberglass Sewing
 Thread

2. Product Data

Product #	R751-12	R751-18	R753-12	R753-18	R753-24	R753-27
Thread Style	Continuous Filament Fiberglass					
Coating Type	PTFE, Sintered					
Coating%	18	18	12	12	12	12
Yeild (yds/lb)	2850	1900	3000	2000	1500	1050
Tensile (lbs)	12	18	12	18	25	30
Diameter (nom)	0.016"	0.019"	0.015"	0.018"	0.021"	0.024"
Final Twist	"Z"	"Z"	"Z"	"Z"	"Z"	"Z"
Color	Natural, Tan					

3. Features

- High Temperature Resistance
- High Strength
- Uniform PTFE Coating
- Finest Glass Fiber Available
- Excellent Flexibility

4. Benefits

- Chemical Resistance
- Minimal Buildup of Contaminates
- Good Sew ability
- Excellent Thermal Sock Resistance
- Flexibility
- Minimal Strip-Back and Untwisting



Specifications

1. Company & Product Information

Supplier Name:
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Product:
PTFE Impregnated Fiberglass Fabric

2. Description

PTFE Impregnated Fiberglass Fabric is an asbestos free woven fiberglass fabric impregnated with PTFE sesins, then coated both sides with pigmented Teflon. This coating is impervious to most known chemicals, will not stain and cleans easily. PTFE has a fairly stiff feel and has excellent abrasion, tear, and puncture resistance. This is very durable medium weight fabric for removable insulation blankets.

3. Typical Properties

Color	Dark Grey
Maximum Temperature	550°F
Type Weave	Plain
Weight	14 oz./sq. yard +/-5%
Thickness	0.014"
Width	60"
Tensile Strength	300 W * 200°F



Specifications

1. Company & Product Information

Supplier Name:
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Product:
Roller Buckles

2. Typical Properties

Part #	RB16X16P-08
Description	Coined Roller Buckle
Size	1" X 1"
Wire Thickness	0.162 Steel

(Available in all Standard finishes 1 or 2 prongs)



Specifications

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Supplier Name:
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Product:
Silica Cloth

2. Description

A woven continuous filament amorphous silica fabric featuring a proprietary tan coating. Applications include pad fabrics, valve covers, curtain materials, and damage control cloth. Resistant to most chemicals, offers good thermal protection to temperatures up to 1800°F.

3. Applications

Base Fabric	Silica
Color/Appearance	Tan
Available Widths	35"
Roll Length, yards	50
Weave Style	Satin, 8 harness
Construction, ends x picks/sq.in.	47 X 33
Fabric Weight, oz./sq.yd., average	18
Fabric Thickness, inches	0.028
Warp Strength, lbs./in.	360.0
Fill Strength, lbs./in.	250.0
Abrasion Resistance	Very Good
Temperature Tolerance	1800°F continuous 3000°F melt temp.
Base Fabric Certifications	95% and Higher-Silica Content
Coating Certifications	N/A
Chemical Resistance	Excellent
Solvent Resistance	Excellent
Sunlight & Age Resistance	Excellent
Electrical Properties	High dielectric strength, low constants