

Sewing Threads, Lacing Tapes and Tie Cords

Multi-Layer Insulation Materials Marshall Space Flight Center

W.F. Lake Corp.
P.O. Box 4214
65 Park Road
Glens Falls, NY 12804
Customer Service: (800) 428-1162
Tel: (518) 798-9934
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www.wflake.com



Sewing Threads



Lacing Tapes & Tie Cords

W.F. Lake Part No. Multi-Layer Insulation Guidelines

Table 4.2.1: Threads for non-exposed MLI seams

R721-70 **Reinforced Kevlar Thread**
Polyimide thread with stainless steel wire reinforcement and PTFE (Teflon by DuPont) coating.

Table 4.2.2: Threads for exposed MLI seams

TFQ-24 **Quartz Thread Mil-C-20079, Type III, Class 3**
High temperature quartz thread, 16 to 24% PTFE coating

R753-24 **Glass thread coated with PTFE**
Mil-C-20079, Type III, Classes 3 and 4

E761-314SS **Reinforced glass thread coated with PTFE**
Mil-C-20079, Type III, Class 6, 13-16% PTFE coating

Table 4.5.2: Lacing tapes and tie cords

E779-222 **Flat Braided Lacing Tape**, PTFE Coated before braiding

E779-303 Thickness: 0.018" - 0.007"

E779-476 Width: 0.125" - 0.470"

E779-680 Diameter: N/A

E779-1075 Break Strength (lbs): 40 -150 lbs

E761-314 **Round Braided Tie Cord**, PTFE Coated before braiding

E761-668 Diameter: 0.047"-0.27"

E761-1330 Break Strength (lbs): 50 -80 lbs

W.F. Lake Corp. manufactures a wide variety of high temperature, chemical resistant products. As the continuation of Dodge Fibers / Oak Industries, our threads, yarns, braided lacing tapes and tie cords have been in the field for over 40 years and have proven to be the most capable, finest quality products available!

See timeline "Experience Counts" on our website for a historical perspective.

Applications:

Multi-Layer Insulation
High Temperature Textiles
Safety Spray Shields
Filter Bags
Insulation Jackets
Thermal Insulation Pads
Expandable Bellows
Welding Blankets
Heat Shields



W.F. LAKE

High Performance PTFE & Silicone Coated Products

W.F. Lake Corp. manufactures high performance PTFE and Silicone coated products designed for extreme operating environments. Our non-stick, temperature and chemical resistant materials are uniquely suited for a wide variety of specialized industrial applications in a number of diverse industries. By combining our broad based in-house processing and converting capabilities, we are able to offer you creatively engineered products especially suited to your application. Give us a call to discuss your material needs... we're ready to help!

***We manufacture the industry's widest range of
PTFE Coated Fiberglass products !***



PTFE Coated ...

*Fabrics
Adhesive Tapes
S-2 Glass Fabrics
Kevlar* Fabrics
High Temperature Belting
Braided Draw Cords
Braided Lacing Tapes
Yarns
E-Glass Sewing Thread
S-2 Glass Sewing Thread (1400 deg. F)
Kevlar* Sewing Thread
Quartz Sewing Threads (2000 deg F !!!)*

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High Performance PTFE & Silicone Coated Products

MIL-SPEC PTFE Coated Fiberglass Lacing Tapes

Military Specification A-A-52083

Formerly Mil-T-43435, Type IV
PTFE COATED FIBERGLASS

W.F. Lake Part Number	Mil Spec Size	Tensile (lbs min.)	Thread Type	Braid Type
E779-303	2	100	Braided	Flat
E779-680	3	75	Braided	Flat

Available in 250 yd and 500 yd precision wound packages.
See our data pages on these products for additional, detailed information.

Features

Will Not Burn
Will Not Support Flame
Will Not Rot or Support Fungus
Virtually Unaffected by Fuel,
Oil, Hydraulic Fluids etc...
High Temperature Resistance
High Strength

Benefits

Excellent Chemical Resistance
Minimal Buildup of Contaminants
Excellent Abrasion Resistance
Excellent Thermal Shock Resistance
Excellent Flexibility
Smooth. No loose filaments

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Contact us for additional data, applications information and new product opportunities.

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1000 deg. Fahrenheit



540 deg. Celsius

Applications:

Commercial Aircraft
Military Aircraft
Municipal Transportation
Tying wire bundles
Tying cable bundles
Wire harnesses

Other Applicable Specifications:

E779-303... Mil-T-43435B, T4, Finish D
E761-1330... Mil-C-20079H, T3, Class 4
Martin..... STM-F-411, STM-F-417,
STM-F-420
Lockheed ... 25-4066A
Boeing BAC 5107, BAC 5157
Hamilton Standard... 539769
General Electric..... 932A224
US Naval Command. 17773A11181007X

Contact factory for additional information on these and other specifications.



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