

# Sewing Threads, Lacing Tapes and Tie Cords

## Multi-Layer Insulation Materials Marshall Space Flight Center

W.F. Lake Corp.  
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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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