

Sewing Tips for PTFE coated Fiberglass Sewing Thread

W.F. Lake Corp. manufactures the industry's widest range of PTFE coated fiberglass sewing threads. Our smooth PTFE coating enhances the flexibility of this very fine fiberglass thread, making it especially suitable for most industrial sewing machines. However, employing the amazing performance characteristics of this thread family typically comes with a learning curve. They are NOT drop in replacements for polyesters, aramids or any other thread you may be familiar with. This data sheet contains a few tips for sewing with these high performance threads. In order to take advantage of their properties, you may need to learn a few new tricks:

Slow Down!

Speed kills. You may have to accept the fact that you will need to sew at a slower rate. This product does not stretch and will react poorly to high speeds. Success with another type of industrial thread does not guarantee success with PTFE coated fiberglass thread. These products are not "drop in" replacements for aramids, polyesters, etc...

Choose the right size needle:

R753-12: Singer Needle Size 21-22. R753-24: Singer Needle Size 23-25
R753-18: Singer Needle Size 22-24. R753-27: Singer Needle Size 24-27

Clean up that thread path:

Check for burrs, grooves or gouges along the entire thread path. Check any hooks, check the bobbin case, tension gates, walking foot, bobbin winder, etc... Damage to the thread can cause a break. Even though it is PTFE coated, it is still fiberglass!

Consider a lubricant:

If possible, use the thread pre-lubricated with one of our high speed thread lubricants... there is no extra charge for this. Style X80 is our most popular silicone oil based lubricant but we have others to consider as well. Cooling and lubricating the thread is often the most effective "fix".

Cover the spool:

If the thread has a wire twisted in, or if you're seeing the material slough off the spool, consider putting a nylon stocking over the spool to keep the material in place. Other times an "upside-down" poly-bag with a hole in the top to allow the thread to unwind off the spool is enough. These tips can also reduce "kinking" of the thread.

Remember:

We're here to help but these are only suggestions. Each sewing application is unique and conditions can vary dramatically. *W.F. Lake Corp.* and its distributors can not guarantee results and these recommendations are presented to help with your application but do not carry any warranty or any liability based on their use. You should be certain to assure yourself that this thread is suitable for the intended application. Any technical information is nominal and should not be used for writing specifications.

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PTFE coated fiberglass



Also available with
Stainless Steel or inconel wire
twisted in prior to coating!

***Many configurations available.
Up to 2,000 degrees Fahrenheit.
(1090 Celsius)***

Applications:

High Temperature Textiles
Safety Spray Shields
Filter Bags
Braided Jackets / Covers
Insulation Jackets
Thermal Insulation Pads
High Temperature Gaskets
Kiln Seals
Fire Resistant Composites
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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