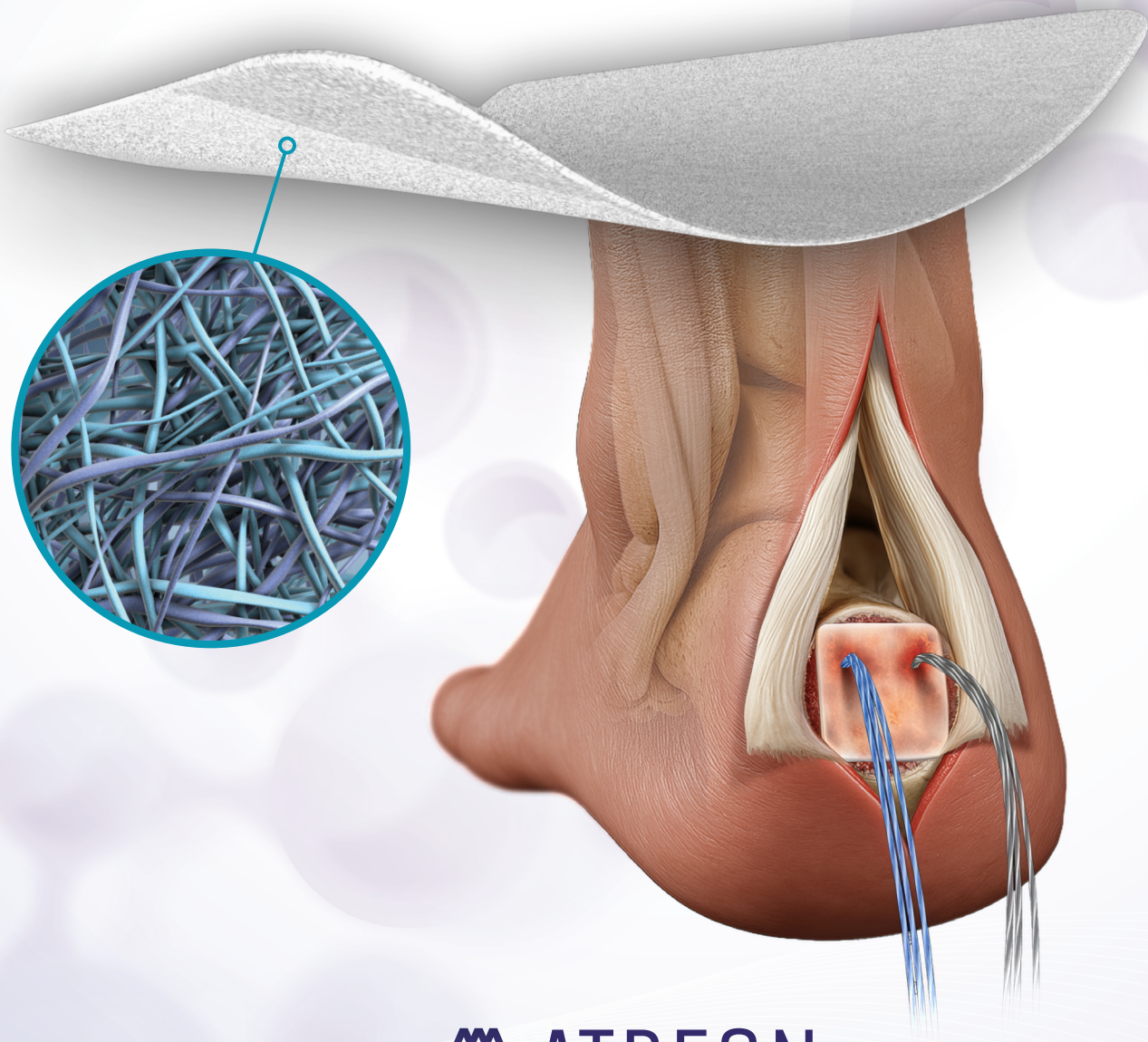


IR ROTIUM[®]

Bioresorbable Wick

FOOT & ANKLE APPLICATIONS



 **ATREON**
ORTHOPEDICS

AUTOBIOLOGIC[™] SCAFFOLDS:
POWERING THE HEALING RESPONSE



ROTIIUM® is a **bioresorbable scaffold** designed to support the healing environment at the tendon-bone or tendon-suture interface by retaining the body's own biologic factors and helping to promote **native tissue integration** without adding surgical time.

A SOLUTION TO A WEAK LINK IN TENDON HEALING

➤ **Foot and ankle tendons** endure high loads and have limited blood supply —when injured, they often heal through scar formation, which compromises strength and function.



A BREAKTHROUGH HEALING SOLUTION



Interpositional Wick

Mimics extracellular matrix (ECM) & holds active biology at the repair site
Kickstarts a pro-healing environment



Synthetic & Bioresorbable

Biphasic absorption encourages cellular integration & proliferation
Organic acid resorption known to facilitate healthy tissue remodeling



Smart Economics & Simplified Technique

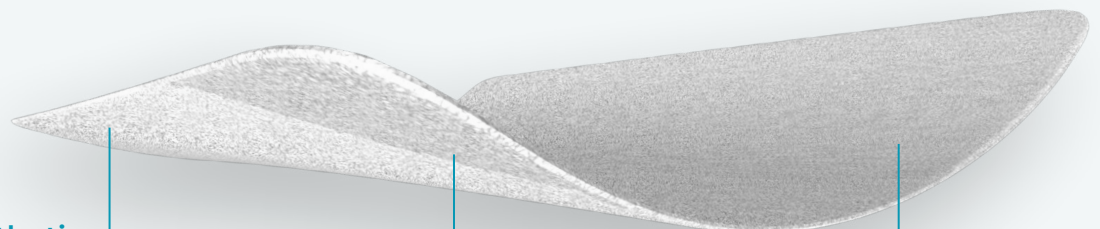
Priced for use on every repair
Easily incorporated into current surgeries without disposables



Reproducible Clinical Success

Promotes the natural healing process
Delivers consistent long-term results & restoration of function

DESIGNED AS A SCAFFOLD

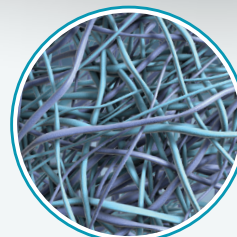


100% Synthetic

PGA – Poly-Glycolic Acid
PLCL – Poly-Lactide co-caprolactone

Footprint Coverage

20x20 mm | 40x30 mm
25x50 mm | 60x30 mm
25x70 mm | 25x30 mm
0.85 mm & 0.45mm thickness



85% Porous

Microfiber matrix

Absorbable

3 - 4 months

SUPPORTS HEALING ACROSS MANY PROCEDURES

- Achilles Tendon (Haglund's deformity & mid-substance Repair)
- Peroneal Tendon Repair
- Posterior Tibial Tendon Repair
- FHL transfer
- Kidner procedure



INTERPOSITIONAL OR ONLY PLACEMENT

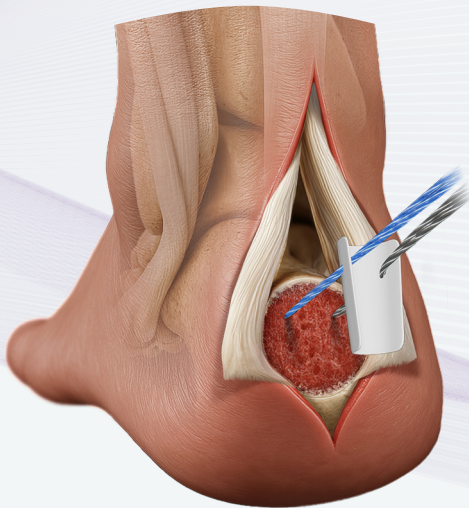
Placed at the tendon-bone interface or wrapped around a tendon



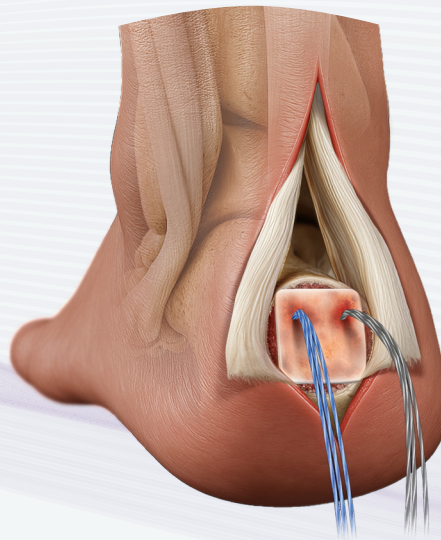
EASILY WRAPPED OR SUTURED

Robust scaffold with optimized handling characteristics that wicks biology at the repair site

VERSATILE & SIMPLIFIED TECHNIQUE



1 Pass suture through scaffold and slide down sutures toward repair site



2 Position on the repair footprint and allow scaffold to wick

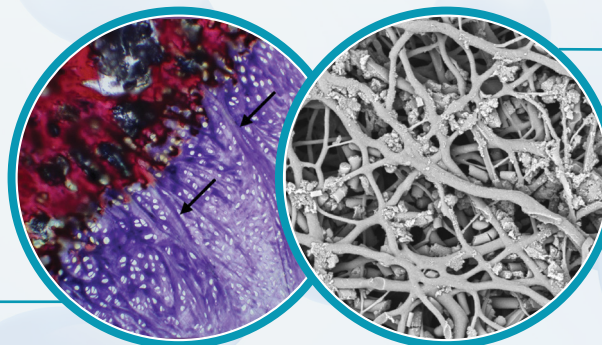


3 Complete repair with tendon over ROTIUM®

SUPPORTED BY SCIENTIFIC & CLINICAL DATA

» **MIMICS NATIVE ECM:** Promotes Healing Through Cellular Proliferation and Integration

Sheep CSU Study (JSES, 2022), Winner of the 2023 Neviaser Award for Basic Science by ASES & JSES: **Development of Sharpey's like fibers at the tendon-bone interface** using an interpositional nanofiber scaffold.



Proliferation of human tenocytes into **ROTIUM®** scaffold after 4 weeks (Data on file)

CONFIDENCE IN SYNTHETICS*

ROTIUM supercharges tendon healing by promoting cellular interactions to drive tissue remodeling. Organic acid polymer contributions:

GLYCOLIC ACID

- Anti-Inflammatory properties
- Increases fibroblast proliferation & production of collagen & HA

LACTIC ACID

- Modulates inflammation & accelerates cellular migration
- Promotes ECM deposition & reparative angiogenesis

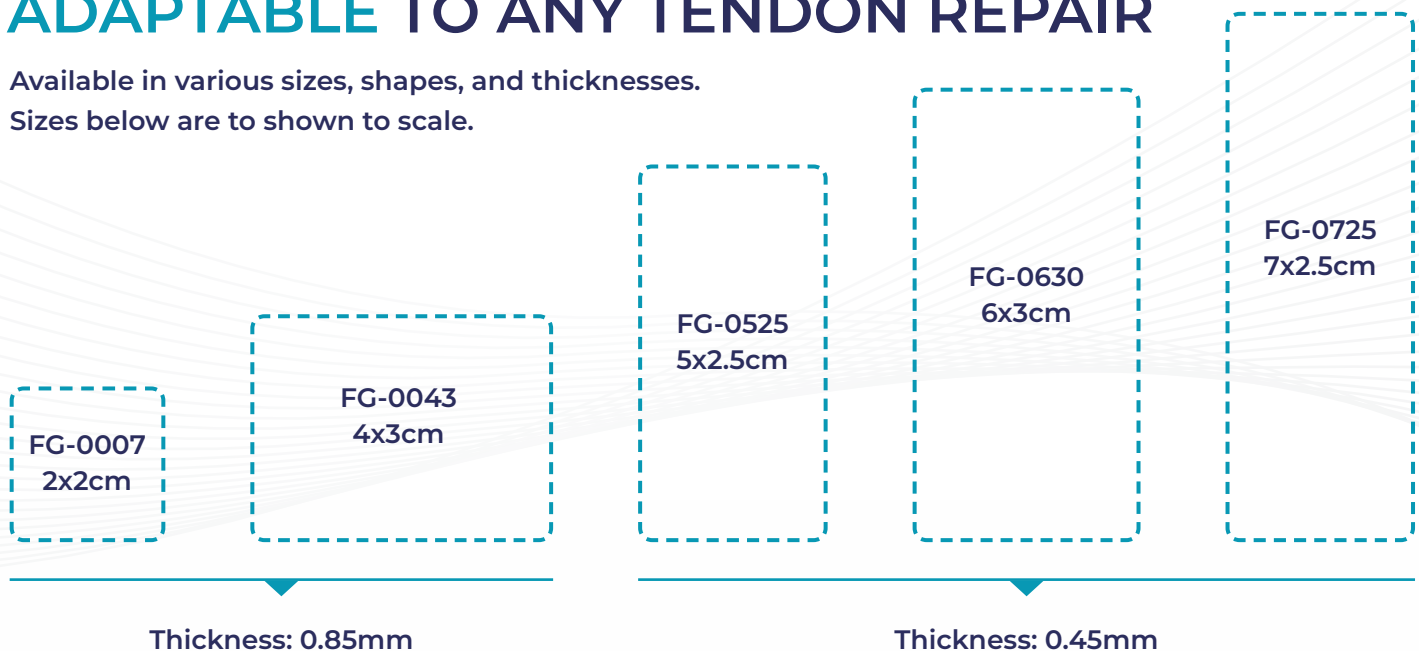
CAPROIC ACID

- Anti-microbial properties
- Anti-inflammatory properties

*Studies available upon request

ADAPTABLE TO ANY TENDON REPAIR

Available in various sizes, shapes, and thicknesses.
Sizes below are to shown to scale.



Legal Manufacturer: Nanofiber Solutions

Distributed by: Atreon Orthopedics 5164 Blazer Pkwy. Dublin, OH 43017 USA
614-429-1471 | www.atreonortho.com

Biomechanical enhancement in rotator cuff repairs: the impact of innovative nanofiber technology. Johnson, James et al. JSES International, Volume 9, Issue 1, 116 - 122
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† All claims supported by data on file § References available upon request

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View U.S. patent information at <https://nanofibersolutions.com/technology/>

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