FiberWire was the first high strength suture on the market and continues to be preferred by orthopaedic surgeons around the world.

The novel structure of FiberWire offers a (UHMWPE) core that provides its superior strength and a coated braided jacket that improves its tying characteristics and protects it from abrasion.

Arthrex continues to develop new innovative products with FiberWire. FiberWire consistently provides optimal knot strength, loop security, abrasion resistance, and minimal elongation to support these new products, which improves surgical outcomes.

#2 FiberWire Ordering Information

AR-7200  #2 FiberWire, 38 inches (blue) w/Tapered Needle, 26.5 mm 1/2 circle, qty. 12
AR-7201  #2 FiberWire, 38 inches, 2 strands (1 blue, 1 TigerWire), sterile, qty. 12
AR-7202  #2 FiberWire, 38 inches (blue) w/Reverse Cutting Needle, 36.6 mm 1/2 circle, qty. 12
AR-7209  #2 FiberStick, #2 FiberWire, 50 inches (blue) one end stiffened, 12 inches, sterile, qty. 5

FiberWire is available in other sizes, configurations and is preloaded on Arthrex suture anchors.

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Maximum Performance

Arthrex has completed testing of all the high strength sutures available on the market and the biomechanical properties of FiberWire continue to exceed expectations.

When evaluating any of these sutures it is important to understand each of their unique properties. All of the high strength sutures are primarily comprised of ultra-high molecular weight polyethylene (UHMWPE) with exception to both FiberWire and ORTHOCORDTM.

FiberWire contains a coated braided jacket and ORTHOCORD differentiates itself with a degradable component. These unique sutures were analyzed by Arthrex and independent testing facilities and it is clear why surgeons choose FiberWire for their patients.

Suture Retention

Independent test data has shown that there is no significant difference in tissue displacement between #2 FiberWire and #2 ORTHOCORD in a rotator cuff model.

The tissue cut-through test was completed with each suture cycled under load for 70 cycles at 8 mm of extension through subscapularis tendon.

The PDS (polydioxanone) component of ORTHOCORD degrades over time, but so does its strength

A degradation test was completed on #2 ORTHOCORD that verifies the knot strength of this suture is dramatically reduced over time:

#2 ORTHOCORD Degradation Test Results:
6 Weeks Post-op 27% reduction in knot strength
12 Weeks Post-op 41% reduction in knot strength

Strength and Performance you can Count on

Strength Analysis

FiberWire
ORTHOCORD

Abraison Resistance

ORTHOCORD Knot Strength Degradation Study

FiberWire
ORTHOCORD

*10N weight moving at a constant rate of 12.5m/min., in-line with the implant
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Strength and Performance you can Count on

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ORTHOCORD Knot Strength Degradation Study

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Knot Security (at 3 mm extension)

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ORTHOCORD Knot Strength Degradation Study

Strength and Performance

you can Count on

Strength Analysis

Displacement FiberWire Vs. ORTHOCORD
(Subscapularis tendon)

The tissue cut-through test was completed with each suture cycled under load for 70 cycles at 8 mm of extension through subscapularis tendon.

Abrasions and Performance

ORTHOCORD Ethibond Herculine MaxBraid

Surgeon's Roeder Weston

ORTHOCORD Knot Strength Degradation Study

Abraisons & Performance

ORTHOCORD Ethibond Herculine MaxBraid

0 2 4 6 8 10 12

0 10 20 30 40 50 60 70 80

Knot Strength

Ultimate Strength Knot Strength

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U.S. PATENT NOS. 5,964,783; 6,716,234; 7,029,490 and PATENT PENDING

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