Life is ***dynamic***. Your suture should be too.

DYNA

Suture Technology

DePuy Synthes

MITEK SPORTS MEDICINE

PART OF THE Johnson & Johnson FAMILY OF COMPANIES

DYNA Suture Technology

When needed*, self-tensions to provide continuous compression for at least 12 weeks[1,2]*

The Challenge:

High density polyethylene, the key material in high-strength sutures, has been found to relax under load[3], which can cause sutures to lose tension. Our testing showed showed that FiberWire® loses 52% of suture tension within 24 hours (even in a knotless configuration).[2] The lack of persistent footprint area pressure could diminish tendon to bone healing.[4,5]

52%↓

Loss In Tension at 24 Hours for FiberWire®

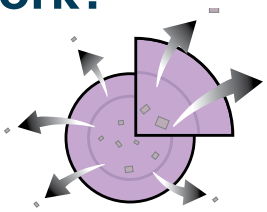
Our Solution to Suture Laxity:

Our dynamic sutures are high-strength orthopedic sutures that utilize DYNA Suture Technology to self-tension, when needed*, to provide continuous compression for at least 12 weeks.[1,2]

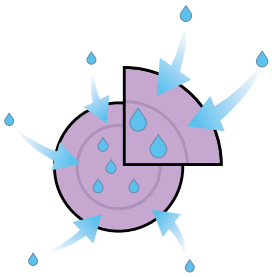
The sutures are comprised of three layers: 1) an outer braided sheath made of ultra high molecular weight polyethylene fibers and an optional polyester tracer 2) an inner sheath made of braided polyester fibers and 3) a salt-infused silicone core.

How does DYNA Suture Technology work?

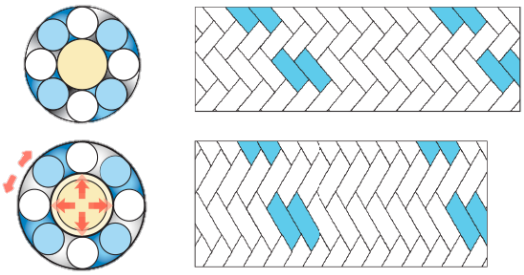
1 In a fluid environment, the **salt dissolves** leaving a porous core.



2 The sutures provide continuous compression†. **Only when tension is lost‡**, the braided structure relaxes and allows the core to swell.



3 As the core swells, the braid shortens‡ resulting in **self-tensioning**.



*Animal and bench testing results may not necessarily be indicative of clinical performance.

† Bench top testing has shown continuous compression for at least 12 weeks

‡ Below approximately 22N for DYNATAPE Suture and 20N for DYNACORD Suture

§On average up to 7.1% shortening for DYNACORD Suture and 5.1% shortening for DYNATAPE Suture[6,7]

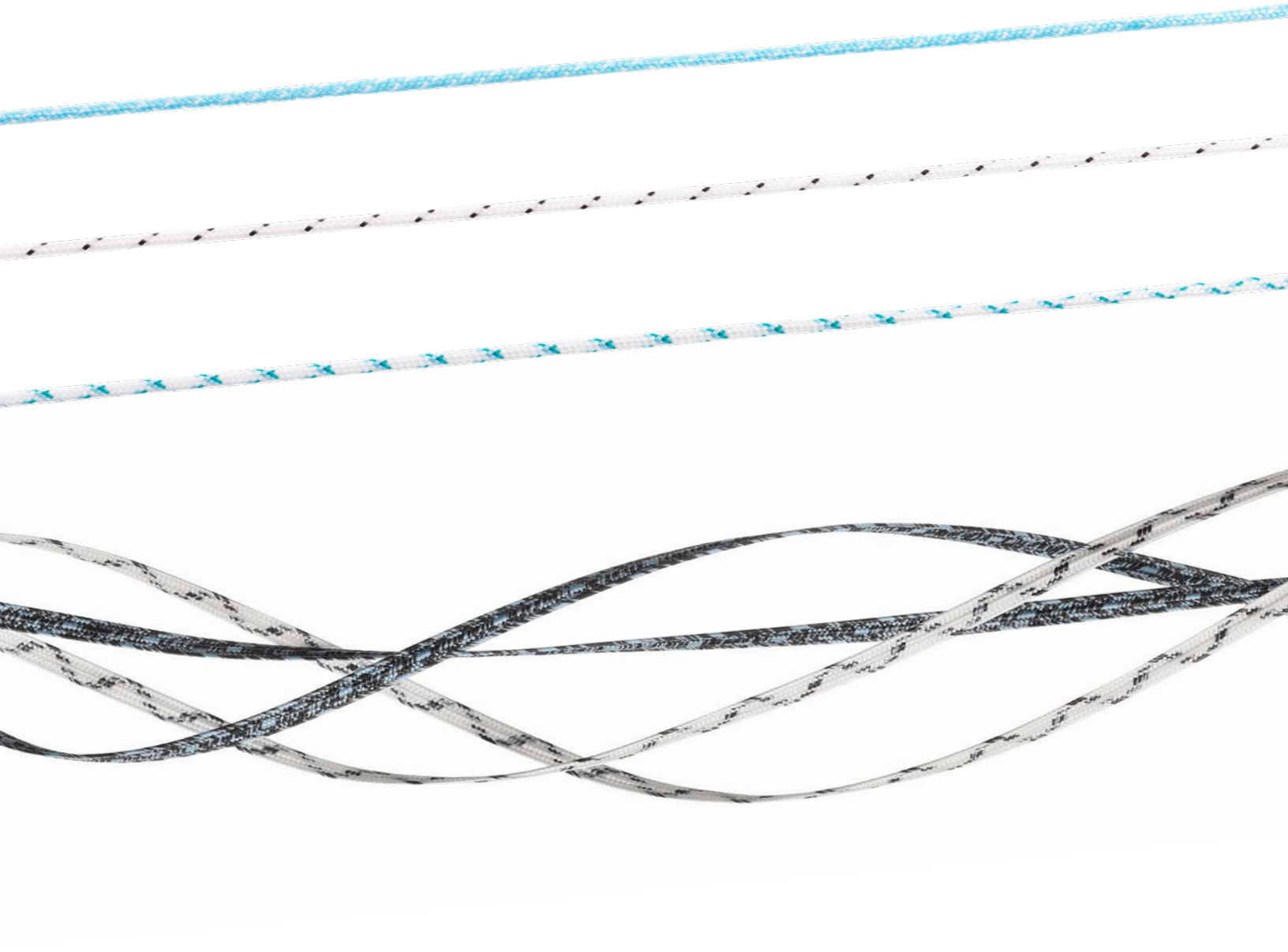
Dynamic Suture Portfolio

DYNACORD® Sutures

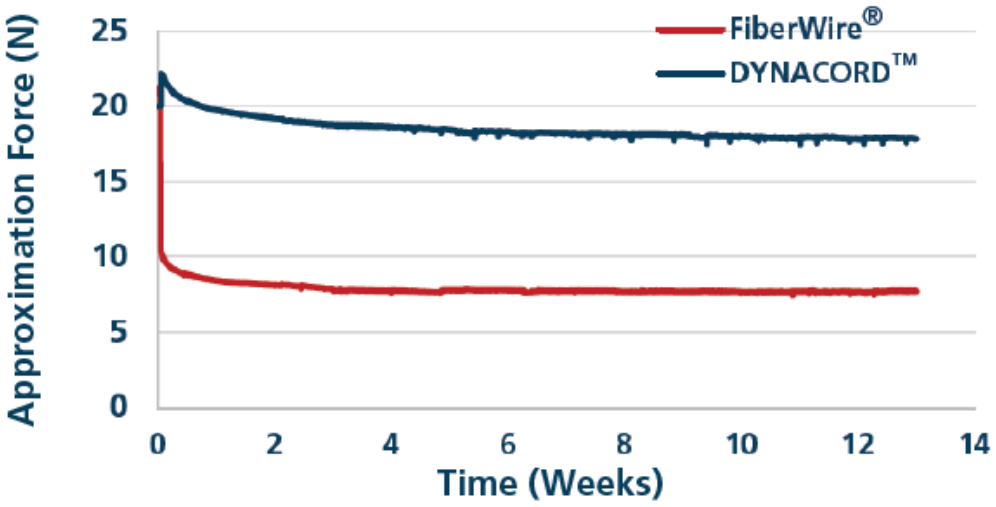
Available on:
4.5 mm, 5.5 mm, 6.5 mm HEALIX ADVANCE® BR and PEEK Anchors
Free strand sutures with and without needles

DYNATAPE® Sutures

Free strand sutures without needles



When needed*, DYNACORD® Suture self-tensions to provide **continuous compression** for at least 12 weeks.[2]



In Ovine Infraspinatus testing DYNACORD® Suture was **28% less abrasive** than FiberWire.[8]

Mechanical testing showed that DYNACORD® Suture's **tensile strength was comparable** to the tensile strength of FiberWire.[9]

In benchtop testing, Duncan knots backed up with three alternating half hitches (HH) tied with DYNACORD® Suture were **more secure** than those tied with FiberWire.[10]*

* Animal and bench testing results may not necessarily be indicative of clinical performance

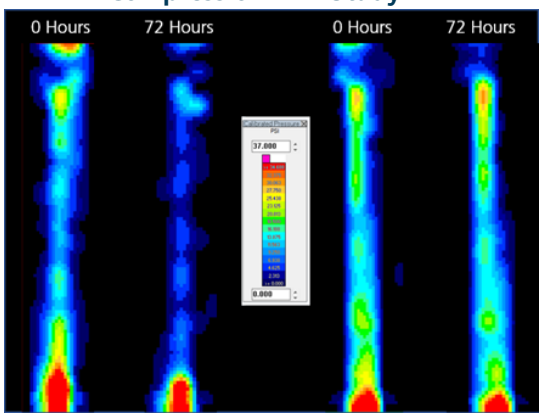
DYNATAPE® Suture

Designed to optimize suture tape technology.

74% ↑

Greater compression footprint[11*†‡]

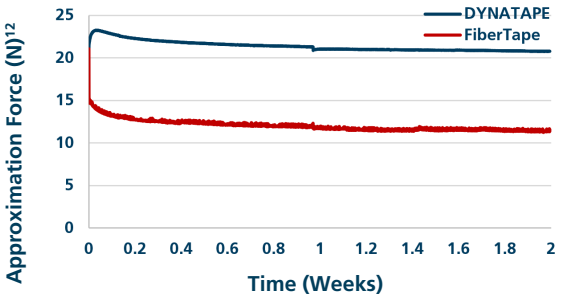
Compression Film Study



FiberTape | DYNATAPE® Suture

At least 12 Weeks

Continuous compression[1‡]

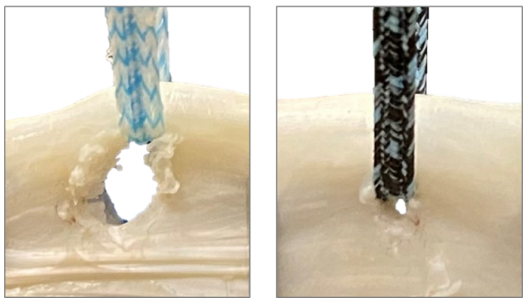


Representative data. Testing showed DYNATAPE Suture provided continuous compression for at least 12 weeks.[1]

55% ↓

Less abrasive to tissue[13‡§]

FiberTape | DYNATAPE® Suture



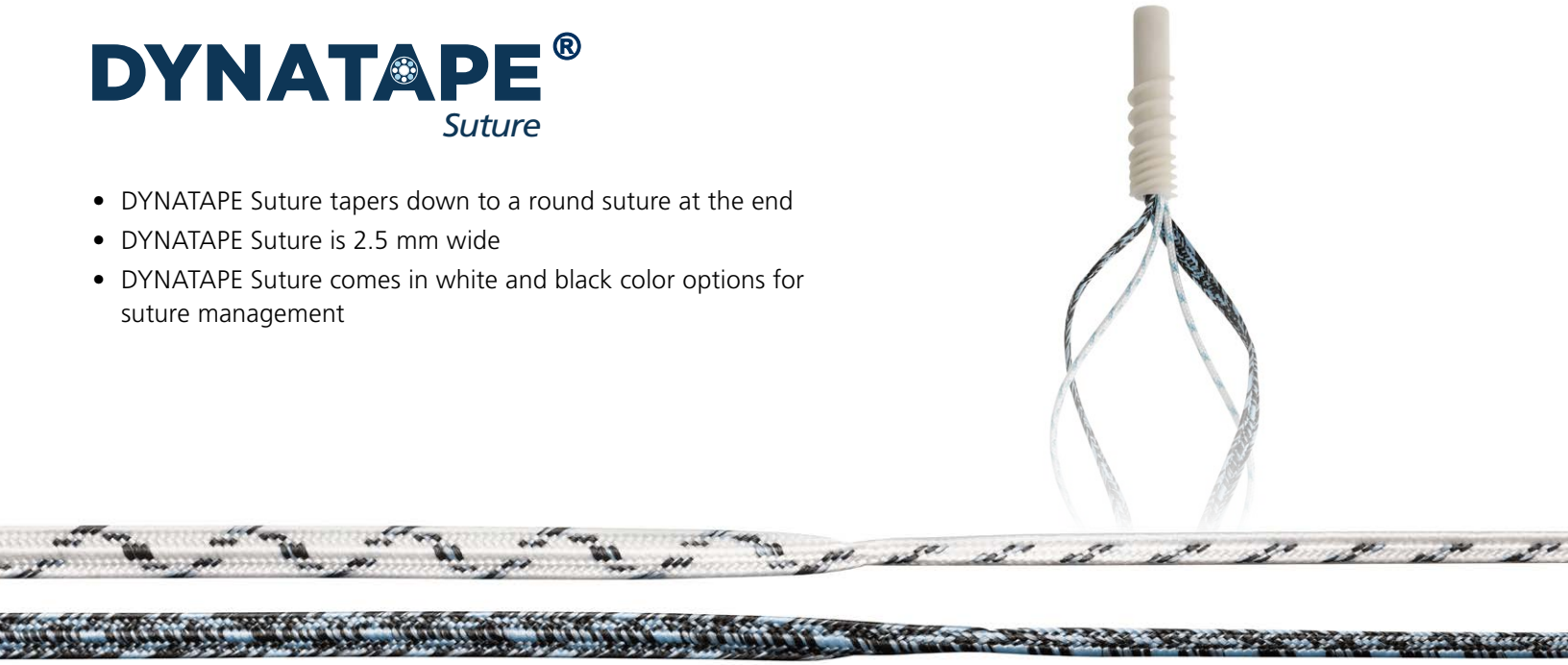
50 cycle test at 40 mm displacement

*Data analysis was conducted at a threshold compression of 4.6 PSI
†As compared to FiberTape after 72 hours
‡ Animal and bench testing results may not necessarily be indicative of clinical performance
§ As compared to FiberTape

Product Details

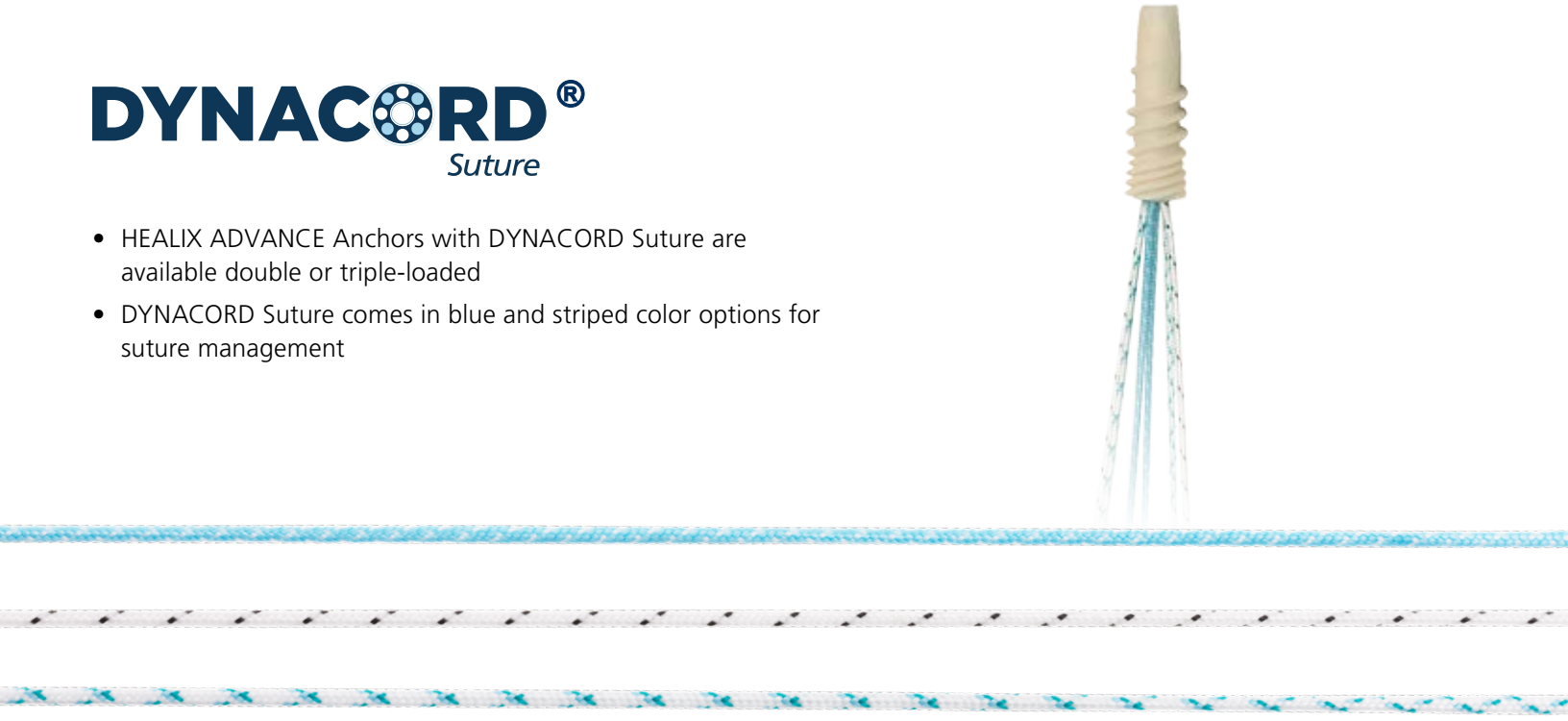
DYNATAPE® Suture

- DYNATAPE Suture tapers down to a round suture at the end
- DYNATAPE Suture is 2.5 mm wide
- DYNATAPE Suture comes in white and black color options for suture management



DYNACORD® Suture

- HEALIX ADVANCE Anchors with DYNACORD Suture are available double or triple-loaded
- DYNACORD Suture comes in blue and striped color options for suture management



Product Codes

DYNACORD® Suture

Anchor Type	Anchor Material	Suture Type	Anchor Size	Product Code
HEALIX ADVANCE® Anchors	BIOCRYL RAPIDE® Biocomposite Material	Single Strand #2 DYNACORD Suture	4.5 mm	222001
			5.5 mm	222004
			6.5 mm	222011
		Single Strand #2 DYNACORD Suture with Needles	4.5 mm	222000
			5.5 mm	222006
			6.5 mm	222015
		Triple Strand #2 DYNACORD Suture	4.5 mm	222002
			5.5 mm	222005
			6.5 mm	222013
	PEEK	Single Strand #2 DYNACORD Suture	4.5 mm	222028
			5.5 mm	222032
			6.5 mm	222036
		Single Strand #2 DYNACORD Suture with Needles	4.5 mm	222027
			5.5 mm	222034
			6.5 mm	222038
		Triple Strand #2 DYNACORD Suture	4.5 mm	222029
			5.5 mm	222033
			6.5 mm	222037

Suture Type	Needle Type	Suture Color	Quantity	Product Code
Single Strand	Without needles	Blue	1 Pack of 12 sutures	222067
	Without needles	Striped	1 Pack of 12 sutures	222068
	With OS-6 needles	Blue	1 Pack of 12 sutures	222065
	With MO-7 needles	Blue	1 Pack of 12 sutures	222066
Double Strand	Without needles	Striped/Blue	1 Pack of 12 double strand sutures	222069
	With OS-6 needles	Striped/Blue	1 Pack of 12 double strand sutures	222073
	With MO-7 needles	Striped/Blue	1 Pack of 12 double strand sutures	222071

Product Codes

DYNATAPE® Suture

Suture Type	Needle Type	Suture Color	Quantity	Product Code
Single Strand	Without needles	White	1 Pack of 12 sutures	280825
	Without needles	Black	1 Pack of 12 sutures	280282
	Without needles	White	Single Pack	280837
	Without needles	Black	Single Pack	280840

REFERENCES:

\+ Studies showed no added long-term tension at tested loads (20N, 40N). ADAPTIV #103670396.

* Animal and bench testing results may not necessarily be indicative of clinical performance.

1. DYNATAPE™ Suture Approximation Force Report. 3/13/2020. ADAPTIV #103670396.
2. DYNACORD™ Suture Approximation Force Report. 09/18/2017. ADAPTIV #103394861.
3. Jordan MC, Boelch S, Jansen H, Meffert RH, Hoelscher-Doht S. Does plastic suture deformation induce gapping after tendon repair? A biomechanical comparison of different suture materials. J Biomech. 2016;49(13):2607-2612. doi:10.1016/j.jbiomech.2016.05.023.
4. Mazzocca AD et al. Biomechanical evaluation of arthroscopic rotator cuff repairs over time. Arthroscopy. 2010; 26(5):592-596.
5. Brassart et al. Loss of rotator cuff tendon-to-bone interface pressure after reattachment using a suture anchor. J Shoulder Elbow Surg. 2008; 17(5):784-789.
6. DYNACORD Suture Strain DVE Report. 08/30/2018. ADAPTIV #103438719.
7. DYNATAPE Suture Strain DVE Report. 03/09/2020. ADAPTIV #103667817.
8. DYNACORD Suture Abrasive Study. 05/20/2020. ADAPTIV #103694565.
9. DYNACORD Suture Straight Tensile Strength Report. 08/30/2018. ADAPTIV #103407084.
10. DePuy Synthes. Knot Security Design Verification Report. ADAPTIV #103412391.
11. DYNATAPE Compression Film Study. 10/12/2020. ADAPTIV #103742818.
12. DYNATAPE Suture vs. FiberTape Cheesewire Comparison. 09/24/2020. ADAPTIV #103742818.

Please refer to the instructions for use for a complete list of indications, contraindications, warnings and precautions.

WARNING: Please also refer to the package insert(s) or other labeling associated with the devices identified in this product catalog for additional information.

DePuy Synthes
MITEK SPORTS MEDICINE
PART OF THE Johnson & Johnson FAMILY OF COMPANIES

Medos International SÀRL
Chemin-Blanc 38
CH-2400 Le Locle
Switzerland

US Representative:
DePuy Mitek, Inc.
325 Paramount Drive
Raynham, MA 02767
T. +1 (800) 382-4682

Johnson & Johnson Medical Pty Ltd t/a DePuy Synthes
1-5 Khartoum Road
North Ryde NSW 2113
Australia