

# High Strength Reconstruction Suture

## Overview

**Material:** Force Fiber® sutures are made of Dyneema Purity® UHMWPE fibers

- UHMWPE stands for Ultra High Molecular Weight PolyEthylene

**Strength:** An independent suture tensile testing study comparing multiple high strength suture types demonstrated that Force Fiber® #2 is positioned among the strongest of the high strength sutures<sup>1</sup>

## Suture Loads to Failure

Company	Product Name	Mean Strength (lbs)
Stryker JP	Force Fiber® #2	67.0
Ethicon	Ethibond™ #2	21.3
Ethicon	Ethibond™ #5	44.9
Arthrex	FiberWire™ #2	43.7
DePuy/Mitek	OrthoCord™ #2	46.0
Linvatec	Hi-Fi™ #2	58.0
Arthrotec	MaxBraid™ #2	59.6
Smith & Nephew	UltraBraid™ #2	65.0
Arthrocare	MagnumWire™ #2	70.5

Overview of the strengths of current high strength sutures compared to Ethibond #2 and #5 sutures<sup>1</sup>



## Needle Types

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**#2 Needle:**  
HC-5, 1/2 Circle Tapered Point Needle



**#5 Needle:**  
K-60, 3/8 Circle Cutting Point Needle

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### Force Fiber® High Strength Suture

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Item Number	Description
3910-900-020	Force Fiber® #2, 38" Strand w/ Needle
3910-900-021	Force Fiber® #2, 38"
3910-900-050	Force Fiber® #5, 38" Strand w/ Needle
3910-900-051	Force Fiber® #5, 38" Strand

\*One box of suture comes with 12 individually packaged sterile strands\*

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## Other Materials and Tools:

- Force Fiber Technical Bulletin: Literature # LJPFF-B
- Force Fiber Sales Brochure: Literature # 1000-900-510b Rev 1
- High Strength Trauma Suture Sell Sheet:

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## Published Suture Articles:

- Barber FA, et. al. Sutures and Suture Anchors - Update 2006. *Arthroscopy, Vol. 22, No 10, 2006: pp 1063-1069.*
- Barber FA, et. al. Cyclic Load and Failure Behavior of Arthroscopic Knots and High Strength Sutures. *Arthroscopy, Vol. 25, No 2, 2009: pp 192-199.*

### Reference:

1. Barber FA, et al. Sutures and Suture Anchors - Update 2006. *Arthroscopy, Vol 22, No 10, 2006: pp 1063-1069.*

A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery.

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**stryker®**

325 Corporate Drive  
Mahwah, NJ 07430  
**t: 201 831 5000**

[www.stryker.com](http://www.stryker.com)