

# B. Braun Closure Technologies

Quality sutures for nearly 100 years



High-quality suture solutions  
from a trusted partner in healthcare.

# The B. Braun Suture Advantage

Since its founding in 1839, B. Braun has built an unparalleled wealth of knowledge and expertise in delivering innovative healthcare products, medical devices and programs that enhance both patient and health-professional safety. The over 30,000 employees worldwide are proud of their commitment to translating customer needs into products with unmatched quality, superior technology, and cost-effectiveness. Sutures form one of the oldest business areas of B. Braun and serve as a core product area in this expertise.

In 1908, B. Braun was a pioneer in developing large-scale industrial production of sterile catgut sutures. Building on this experience and our partnership with medical facilities, B. Braun has become one of the largest suppliers of sutures in the world and offers a full-line of high-quality surgical sutures.

B. Braun Closure Technologies is focused on becoming a clear alternative for sutures in the United States - - - one that stresses high quality, superior service and value for all customers.

## Value Without Compromise™

Whether from an incisions or a puncture, every wound must be safely treated and closed. B. Braun offers a complete range of products for professional wound closure.

B. Braun offers a one of the most comprehensive suture product lines on the market:

- complete range of absorbable and non-absorbable sutures
- more than 6500 suture & suture set codes
- sutures rated clinically "equal or preferred" to the other top sutures
- flexible approach to customization of new items

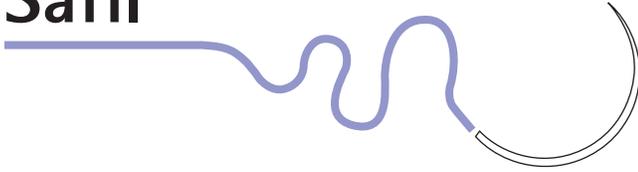


## B. Braun® Conversion Chart Surgical Suture Material

B. Braun	Ethicon	Syneture
Safil®	Vicryl®	Polysorb®/ DEXON®
Safil Quick®	Vicryl Rapid®	Caprosyn®
Monosyn®	Monocryl®	Biosyn®
MonoPlus®	PDS II®	Maxon®
Softcat Chrom®	Chromic Gut	Chromic Gut
Softcat Plain®	Gut	Gut
Premilene®	Prolene®	Surgipro® / Novafil®
Premicron/Synthofil®	Ethibond®	Ticron® / Surgidac®
Dagrofil®	Mersilene®	
Trelon®	Nurolon®	Surgilon®
Silkam®	Silk	Sofsilk®
Dafilon®	Ethilon®	Dermalon®
Steelex®	Steel	Steel



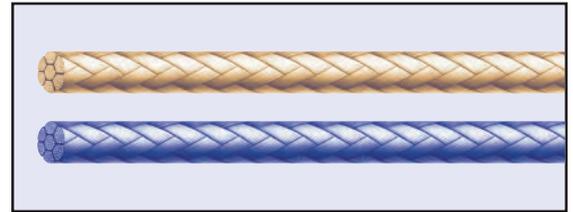
# Safil®



Braided and coated synthetic mid-term absorbable suture made of 100% polyglycolic acid (PGA)

### Advantages:

- Optimized braiding structure enhances tensile strength
- Smooth surface enhances passage through tissue
- Softness and pliability provide excellent handling characteristics



### Tensile Strength:

50% tensile strength at 18 days  
0% tensile strength at 28-35 days

### Absorption:

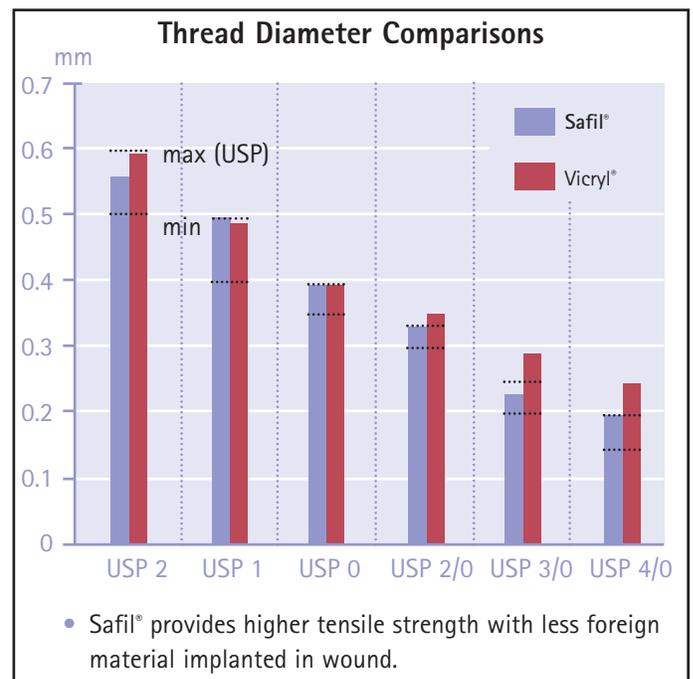
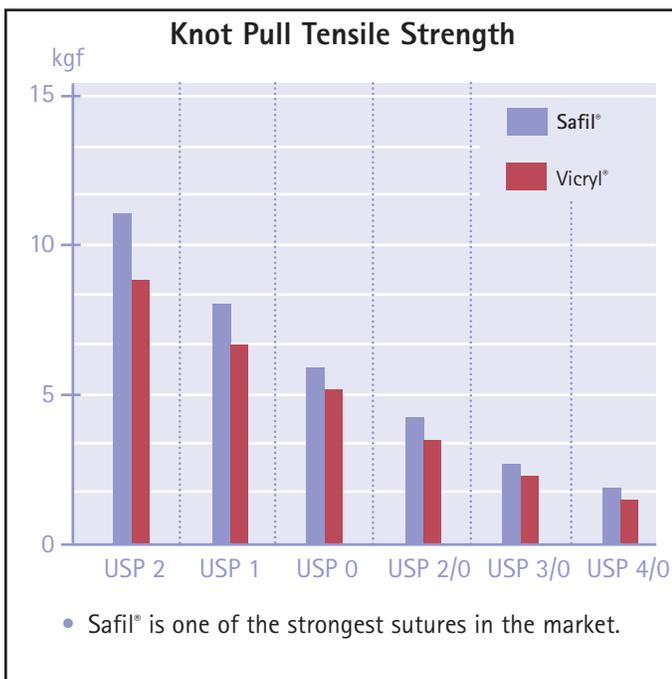
Mass Absorption in 60-90 days

### Surgical Indications:

Safil is indicated for all types of soft tissue approximation and ligation where surgical practice requires the use of a synthetic, absorbable, braided suture material.

### Common Applications:

- Gynecology and obstetrics
- Orthopaedics
- Urology
- General surgery
- Skin closure
- Abdominal wall closure



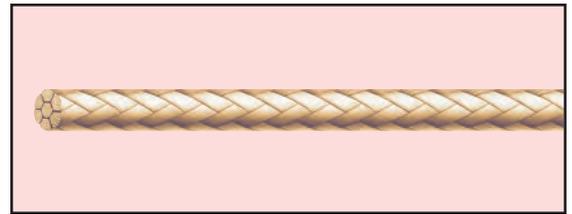
# Safil® Quick



Short-term synthetic absorbable braided and coated suture made of 100% polyglycolic acid (PGA)

### Advantages:

- High initial tensile strength
- Flexibility and outstanding handling properties
- Excellent knot security
- Easy gliding through tissue minimizes trauma



### Tensile Strength:

50% tensile strength at 7 days  
0% tensile strength at 14 days

### Absorption:

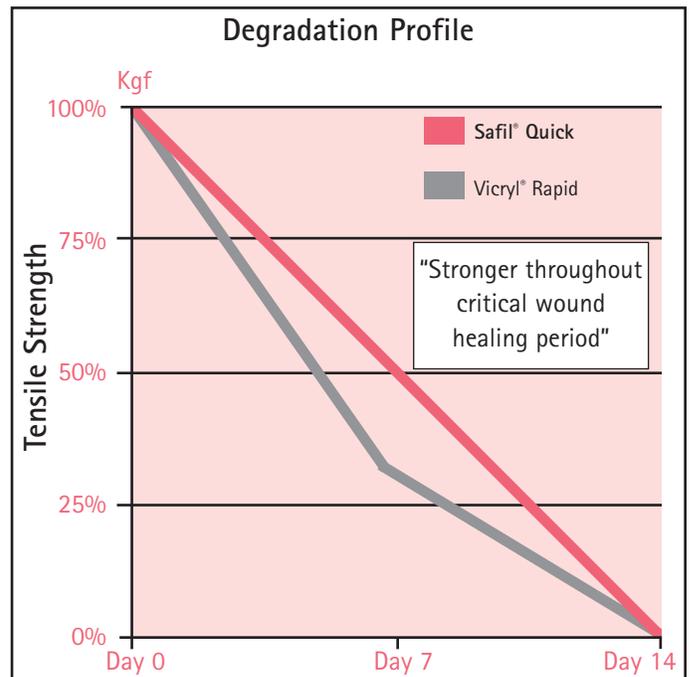
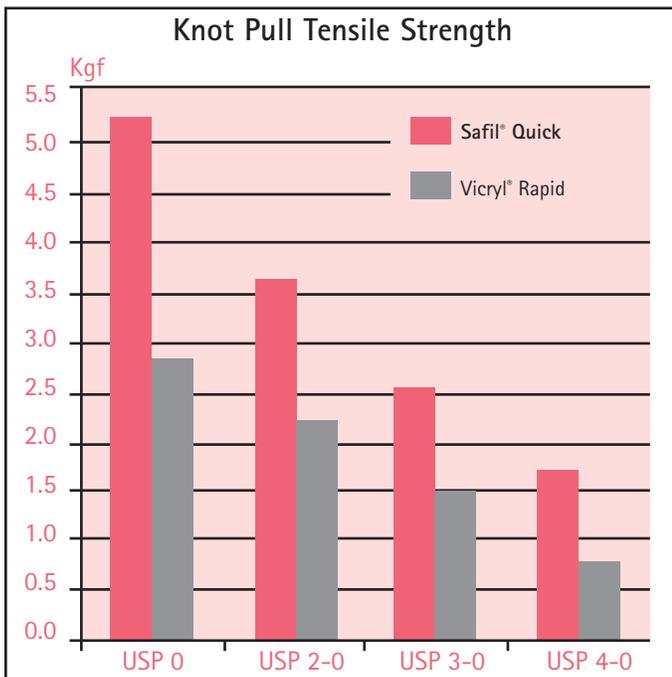
Mass absorption in approximately 42 days

### Surgical Indications:

Safil Quick is indicated for use in soft tissue approximation where short-term wound support is required and where rapid absorption would be beneficial.

### Common Applications:

- Subcutaneous and intracutaneous closure
- Gynecology
- Odontology
- Pediatric surgery
- Ophthalmic surgery
- Ligatures





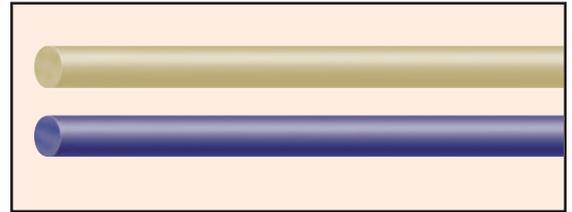
# Monosyn®



Monofilament synthetic mid-term absorbable suture made of glyconate

### Advantages:

- High initial tensile strength
- Ideal degradation for soft tissue
- Extremely flexible
- Smooth passage through tissue



### Tensile Strength:

50% tensile strength at 14 days  
0% tensile strength at 28 days

### Absorption:

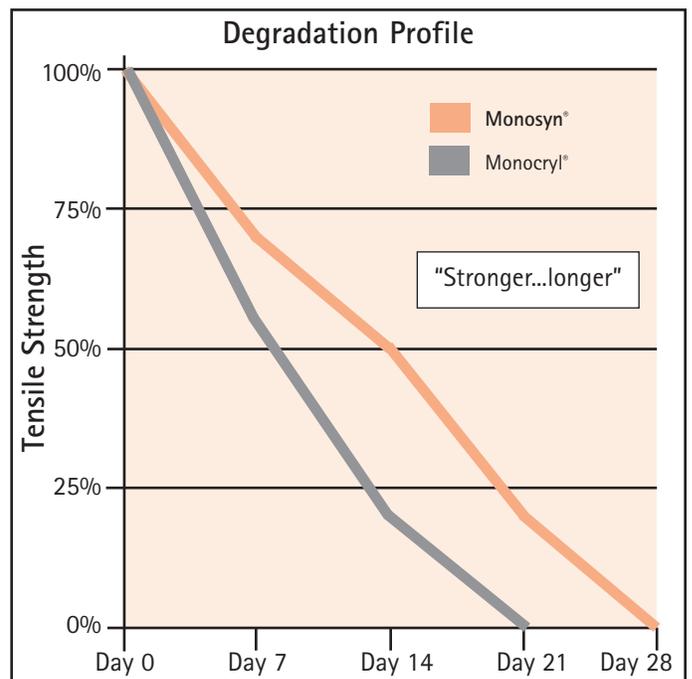
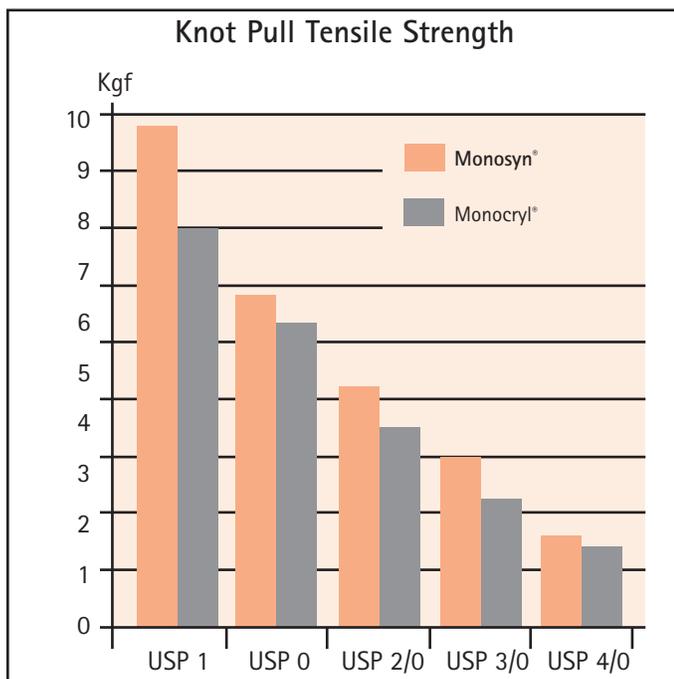
Mass absorption in 60-90 days

### Surgical Indications:

Monosyn is indicated for use in general soft tissue approximation and ligation where mid-term wound support is required.

### Common Applications:

- Subcutaneous and intracutaneous closure
- Plastic and reconstructive surgery
- Gynecological surgery
- Gastrointestinal anastomosis
- Urology



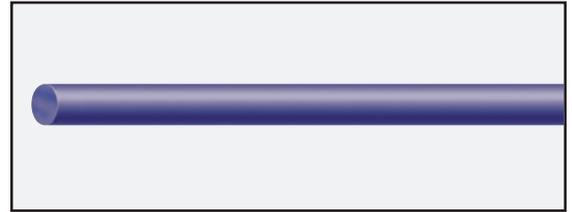
# MonoPlus®



Synthetic long-term absorbable monofilament suture made of polydioxanone

### Advantages:

- Outstanding strength retention
- Excellent handling properties
- Smooth tissue passage



### Tensile Strength:

50% at 35 days USP suture size 3/0 and larger  
50% at 28 days USP suture size 4/0 and smaller

### Absorption:

Mass Absorption in 180-210 days

### Surgical Indications:

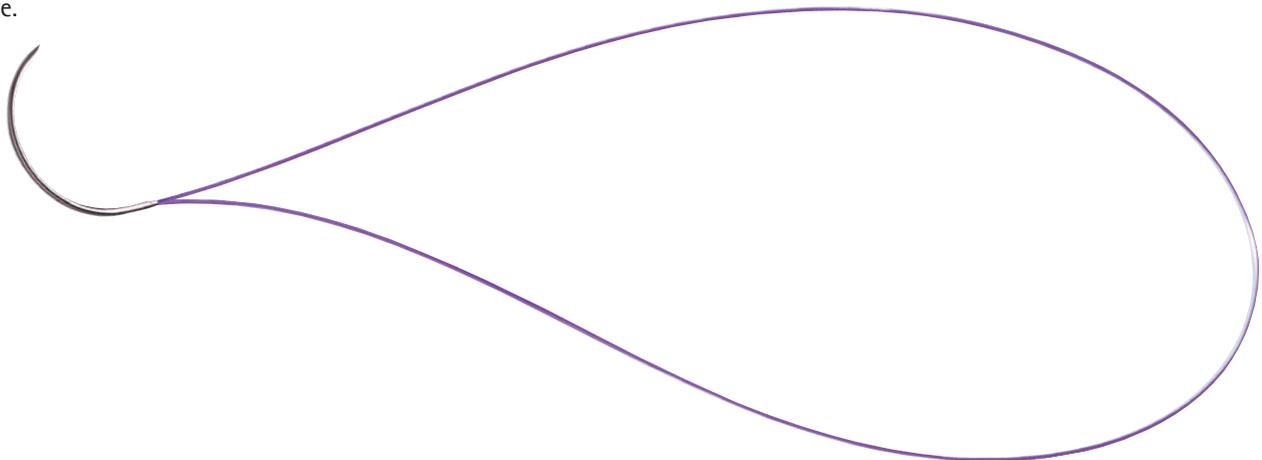
MonoPlus is indicated for general soft tissue approximation, especially in cases where an extended wound support of more than four weeks is desirable.

### Common Applications:

- Orthopaedics
- Abdominal closure
- For patients with delayed wound healing due to age, obesity, diabetes, cancer or infection

### Convenient MonoPlus Loops

MonoPlus Loops consist of a loop of 150 cm or 250 cm suture lengths attached to a single needle to be used for a secure and rapid abdominal wall closure.





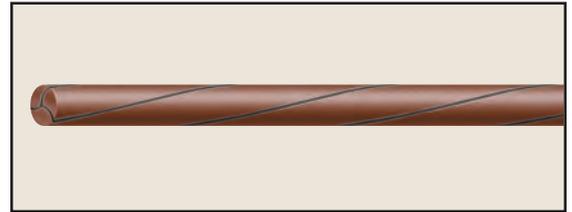
## Softcat® chrom



Natural, twisted absorbable catgut suture made of pure collagen and treated with chromic salts

### Advantages:

- High tensile strength
- Presentation in a modern dry pack providing easy and safe handling
- Constant pliability due to the treatment of glycerol to the thread
- Excellent handling features



### Tensile Strength:

50% tensile strength at 14-21 days

### Absorption:

Mass Absorption in 90 days

### Surgical Indications:

Softcat® chrom is indicated for all types of soft tissue approximation and ligation, including applications in the gastrointestinal area, mucosa and genital area subcutaneous tissue.

### Common Applications:

- Gastrointestinal
- Mucosa
- Dental
- Gynecology
- Subcutaneous skin closure

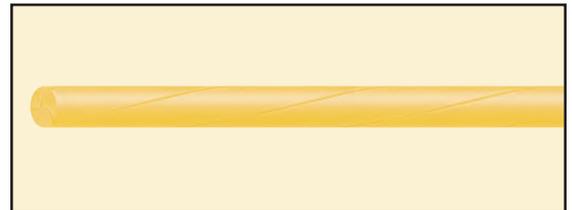
## Softcat® plain



Natural, twisted absorbable catgut suture made of pure collagen and treated with chromic salts

### Advantages:

- Presentation in a modern dry pack providing easy and safe handling
- Constant pliability due to the treatment of glycerol to the thread
- Excellent handling features



### Tensile Strength:

50% tensile strength at 7-10 days

### Absorption:

Mass Absorption in 70 days

### Surgical Indications:

Softcat® plain is indicated for all types of soft tissue approximation and ligation, including applications in the gastrointestinal area, mucosa, genital area, gynecology, subcutaneous tissue and ophthalmology.

### Common Applications:

- Gastrointestinal
- Mucosa
- Dental
- Gynecology
- Subcutaneous skin closure

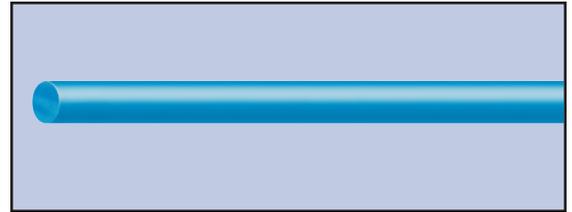
## Premilene®



Non-absorbable monofilament suture material made of polypropylene

### Advantages:

- Soft, supple, flexible
- Reliable knot-holding security
- Biochemically and physiologically inert with excellent tissue compatibility
- Permanent and reliable high tensile strength



### Surgical Indications:

Premilene is indicated for applications where surgical practice requires the use of non-absorbable sutures, particularly in cardiovascular and neurosurgery.

### Common Applications:

- Vascular surgery
- Cardiac surgery
- Plastic and reconstructive surgery
- Skin closure
- Neurosurgery
- Microsurgery
- Ophthalmic surgery

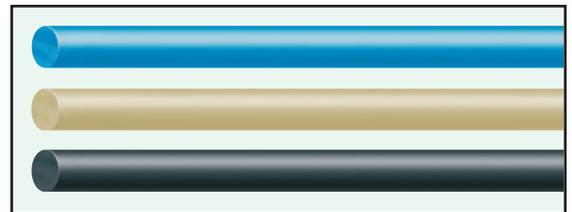
## Dafilon®



Non-absorbable nylon monofilament suture

### Advantages:

- Minimum tissue drag
- Inert material with good tissue compatibility
- Excellent pliability and elasticity for handling



### Surgical Indications:

Dafilon is indicated for dermal procedures, microsurgery and ophthalmic surgery. Like all nylons, a gradual loss of tensile strength (15-20% per year) is experienced over an extended period of time.

### Common Applications:

- Skin Closure
- Reconstructive surgery
- Microsurgery
- Ophthalmic surgery



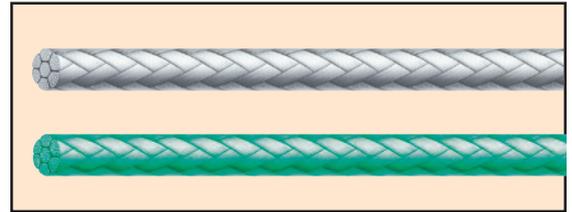
# PremiCron®



Braided non-absorbable suture made of polyester and coated with silicone

### Advantages:

- Uniform surface providing smooth passage through tissue
- High knot-pull tensile strength
- Available with PTFE pledgets to reduce the risk of suture cutting through tissue in delicate cardiovascular/vascular cases

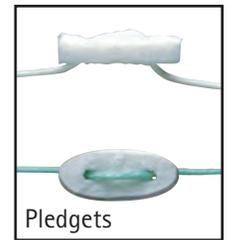


### Surgical Indications:

PremiCron is indicated for use in general surgery, orthopaedic surgery, cardiovascular and vascular indications, where a braided non-absorbable suture with a smooth coating is preferred.

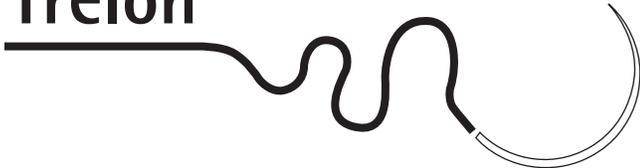
### Common Applications:

- Aortic and mitral valve replacement
- Annuloplasty
- Ventricular septal
- Orthopedic surgery



Pledgets

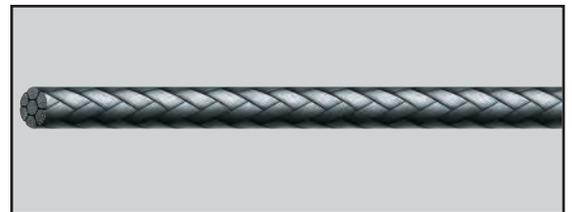
# Trelon®



Braided pseudo non-absorbable suture made of polyamide and coated with silicone

### Advantages:

- Very strong suture with high tensile strength
- Outstanding strength retention
- Flexible and easy to knot
- Smooth tissue passage



### Surgical Indications:

Trelon is indicated for applications where a strong, braided material with high flexibility and smooth coating is preferred

### Common Applications:

- General Closure
- Neurosurgery
- Gastrointestinal surgery
- Plastic surgery

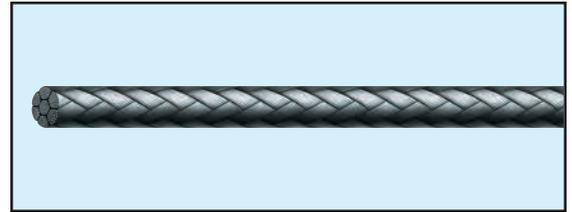
## Silkam®



Natural non-absorbable silk braided suture

### Advantages:

- Excellent knot holding ability
- High tensile strength
- Outstanding smoothness and flexibility
- Excellent handling characteristics



### Surgical Indications:

Silkam is indicated for applications where a natural non-absorbable, braided suture material is preferred. Long-term gradual loss of total strength over time is inherent with all silk materials.

### Common Applications:

- General surgery
- Skin closure
- Oral surgery
- Neurosurgery
- Ligatures
- Ophthalmic surgery

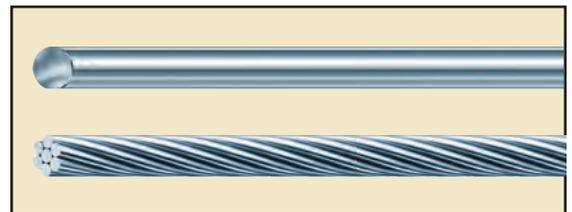
## Steelex®



Non-absorbable monofilament or multifilament stainless steel suture

### Advantages:

- Optimum metal strength and flexibility
- Excellent knot security
- Uniform stainless steel



### Surgical Indications:

Steelex is indicated for applications requiring use of a steel suture including abdominal surgery, orthopaedic procedures, hernia surgery and sternal closure.

### Common Applications:

- Orthopedics
- Sternal closure



# Needle Technology

## High-Performance Surgical Needles

With more than 175 different types in the product range, B. Braun Closure Technologies has a needle that can meet the needs of any surgical procedure as well as surgeons' personal preference.

### State-of-the-Art Metallurgic Processing of a Full Range of Needles

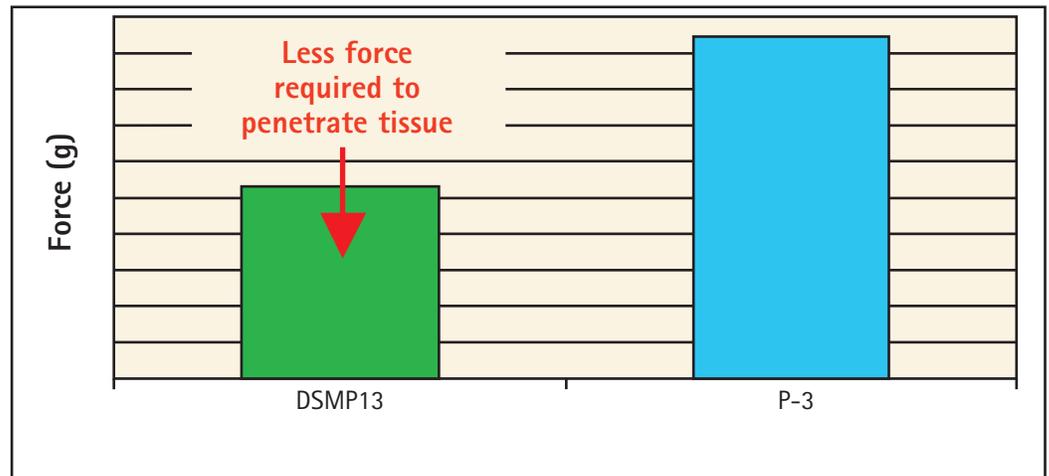
Easyslide® needles are the result of extensive research combining metallurgical technology with nearly a century of clinical experience.



- Highest quality 300-series stainless steel alloy
- Outstanding bending and breaking resistance
- Consistent tip geometry to guarantee continuous smooth and safe penetration
- Smooth tissue penetration as a result to the sharpness and atraumatic ratio between the needle and thread
- Siliconized needle surface across entire needle range

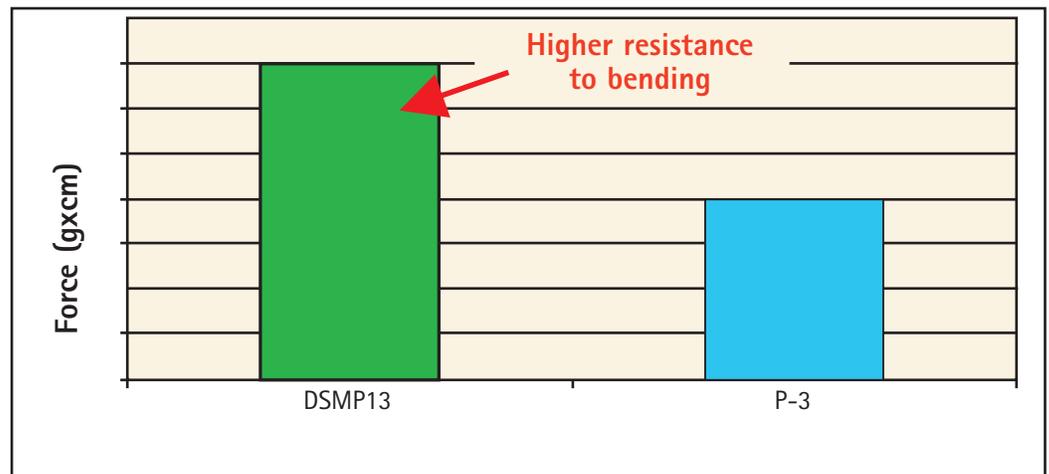
#### Penetration

Average force required after 10 stitches



#### Bending

Maximum force needed to bend the needle





# AESCULAP®

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