



B. BRAUN VET CARE

B. BRAUN VETERINARY SURGERY

SUTURE MATERIAL AND SPECIAL PRODUCTS



COMPLETE PROVISION FOR THE SURGICAL PRACTICE

With around 1,200 needle-thread combinations, this catalogue contains just some of the possible combinations with the B.Braun suture material range. If your desired combination is not shown or listed, please enquire at info@bbraun-vetcare.de or ask your authorised specialist dealer.

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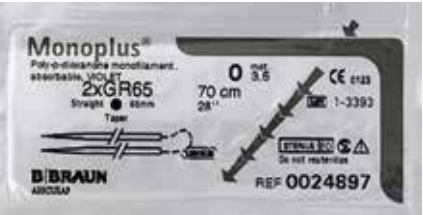
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100 years
of industrially
manufactured sterile
sutures from B. Braun

In 1908, B.Braun Melsungen AG produced the first industrially manufactured, sterile suture material.

SPECIALIST INFORMATION

OVERVIEW OF THE SUTURE MATERIAL

Absorbable	Absorbable	Absorbable
Monosyn® Quick	Monosyn®	MonoPlus®
		
Thread composition: monofilament	Thread composition: monofilament	Thread composition: monofilament
Materials: Glyconate	Materials: Glyconate	Materials: Poly-p-dioxanone
Coating: none	Coating: none	Coating: none
Metric: 0.7 – 4	Metric: 0.7 – 4	Metric: 0.5 – 5
USP: 6/0 – 1	USP: 6/0 – 1	USP: 7/0 – 2
Colours: undyed	Colours: dyed, undyed	Colours: dyed
Loss of tensile strength: ~ 6 – 7 days 50 %	Loss of tensile strength: ~ 14 days 50 %	Loss of tensile strength: ~ 35 days 50 %
Material absorption: ~ 56 days	Material absorption: ~ 60 - 90 days	Material absorption: ~ 180 – 210 days
INDICATIONS	INDICATIONS	INDICATIONS
- Intracutaneous skin closure - Gynaecology, urology - Dental surgery	- Skin, mucosa - Gynaecology, urology, gastro. tract - Sub- and intracutaneous Sutures	- Orthopaedic surgery - Traumatology - Abdominal wall closure

Absorbable
Novosyn®

Thread composition: braided
Materials: Poly(glycolide-co-l-lactide 90/10)
Coating: Poly(glycolide-co-l-lactide 35/65) Calcium stearate
Metric: 0.2 – 5
USP: 8/0 – 2
Colours: dyed
Loss of tensile strength: ~ 21 days 50 %
Material absorption: ~ 56 – 70 days
INDICATIONS
- Gynaecology, urology, ophthalmology - Abdominal wall closure - Ligatures

Information:
Resorption times may vary from case to case. Evidence is available upon request.

Non-absorbable	Non-absorbable	Non-absorbable
Optilene®	Dafilon®	Supramid®
		
Thread composition: monofilament	Thread composition: monofilament	Thread composition: pseudomonofilament
Materials: Polypropylene Polyethylen	Materials: Polyamide 6.6	Materials: Polyamide 6.6
Coating: none	Coating: none	Coating: none
Metric: 0.2 – 4	Metric: 0.1 – 4	Metric: 0.7 – 5
USP: 10/0 – 0	USP: 11/0 – 1	USP: 6/0 – 3
Colours: blue	Colours: blue, black	Colours: black, white
INDICATIONS	INDICATIONS	INDICATIONS
- Skin closure - Hernias - Tendons and capsular suturing - Vessels	- Skin closure - Fixation of drains / catheters	- Skin closure - Drain fixation - Dental surgery
Non-absorbable	Non-absorbable	Non-absorbable
PremiCron®	Silkam®	Steelex®
		
Thread composition: braided	Thread composition: braided	Thread composition: twisted
Materials: Polyester	Materials: Natural silk	Materials: corrosion-resistant surgical steel
Coating: Silicone	Coating: Wax and silicone	Coating:
Metric: 0.7 – 7	Metric: 0.4 – 8	Metric: 1 – 3
USP: 6/0 – 5	USP: 8/0 – 6	USP: 5/0 – 2/0
Colours: green, white	Colours: black, white	Colours: metallic
INDICATIONS	INDICATIONS	INDICATIONS
- Skin closure - Vascular surgery	- Dental surgery - Vascular surgery	- Orthopaedic surgery - Tendons, ligaments - Sternal sutures

SPECIALIST INFORMATION

TISSUE-SPECIFIC APPLICATION RECOMMENDATIONS

	Absorbable			
	Monosyn® Quick	Monosyn®	Novosyn®	MonoPlus®
	monofilament glyconate	monofilament glyconate	braided poly(glycolide-co-l-lactide 90/10) coated	monofilament poly-p-dioxanone
Absorbable – 50 % loss of tensile strength	Short-term ~ 6 – 7 days	Mid-term ~ 14 days	Mid-term ~ 21 days	Long-term ~ 35 days
Skin	+	++	+	++
Subcutis	+	++	++	0
Mucosa	++	++	+	0
Small intestine	0	++	+	++
Colon	–	++	+	++
Bladder (infected)	+	++	0	++
Ureter/Urethra	–	++	0	+
Uterus	++	++	+	0
Parenchymal organs	–	++	0	++
Ovary ligature	–	++	++	++
General ligature	–	++	++	++
Muscles	–	++	++	++
Abdominal wall / linea alba	–	+	+	++
Hernias	–	–	0	+
Fascias	–	–	0	++
Tendons	–	–	–	++
Ligaments	–	–	+	++
Joint capsule	–	–	+	++
Orthopaedic surgery	–	–	0	++
Blood vessels	–	0	0	++
Nerves	–	–	–	+
Dental	++	++	+	+
Edge of eye lid	+	++	++	0
Eye	0	0	++	0

Material of choice

++ very good

+ good

0 suitable

– unsuitable

	Non-absorbable					
	Optilene®	Dafilon®	Supramid®	PremiCron®	Silkam®	Steelex®
	polypropylene polyethylene	monofilament polyamide 6/6.6	pseudo-monofilament Polyamide 6/6.6	braided Polyester coated	braided silk coated	twisted Steel wire
Skin	++	++	++	+	0	++
Subcutis	–	–	–	–	–	–
Mucosa	+	++	++	+	0	–
Small intestine	+	+	+	–	0	+
Colon	+	+	+	–	0	+
Bladder (infected)	+	+	+	–	0	+
Ureter/Urethra	++	+	+	+	–	+
Uterus	–	–	–	–	–	–
Parenchymal organs	+	+	0	0	–	–
Ovary ligature	++	++	++	0	0	–
General ligature	++	++	++	+	0	–
Muscles	+	+	+	0	0	0
Abdominal wall / linea alba	+	+	+	+	0	++
Hernias	++	+	++	++	0	++
Fascias	++	+	+	++	0	+
Tendons	++	+	–	+	0	++
Ligaments	++	+	+	+	0	++
Joint capsule	++	+	+	++	0	+
Orthopaedic surgery	++	+	+	+	0	++
Blood vessels	++	+	–	+	0	–
Nerves	++	+	–	+	0	–
Dental	++	+	+	+	++	–
Edge of eye lid	++	++	0	–	0	–
Eye	++	++	–	–	0	–

Material of choice

++ very good

+ good

0 suitable

– unsuitable

SPECIALIST INFORMATION

TISSUE-SPECIFIC APPLICATION RECOMMENDATIONS - THREAD DIAMETER

DOGS	USP metric						
	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5
Skin							
Subcutis							
Mucosa							
Small intestine							
Colon							
Bladder (infected)							
Ureter/Urethra							
Uterus							
Parenchymal organs							
Ovary ligature							
General ligature							
Muscles							
Abdominal wall / linea alba							
Hernias							
Fascias							
Tendons							
Ligaments							
Joint capsule							
Orthopaedic surgery							
Blood vessels							
Nerves							
Dental							
Edge of eye lid							

Recommendation

CATS	USP metric						
	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5
Skin							
Subcutis							
Mucosa							
Small intestine							
Colon							
Bladder (infected)							
Ureter/Urethra							
Uterus							
Parenchymal organs							
Ovary ligature							
General ligature							
Muscles							
Abdominal wall / linea alba							
Hernias							
Fascias							
Tendons							
Ligaments							
Joint capsule							
Orthopaedic surgery							
Blood vessels							
Nerves							
Dental							
Edge of eye lid							

Recommendation

Defined minimum requirements for suture materials

- Thread diameter
 - Knot breaking strength
 - Linear tensile strength
- The USP (United States Pharmacopoeia) classification is not directly related to the measurable thread diameter.

The European Pharmacopoeia (EP) classifies the thread thicknesses according to the metric system. The thicknesses are given in 1/10 mm. The lower limit is given. The effective diameter of a thread is usually above this value, normally in the upper tolerance range of each thread.

US Pharmacopoeia	European Pharmacopoeia	Thread diameter	US Pharmacopoeia
Absorbable and non-absorbable suture material	Absorbable and non-absorbable suture material	mm – range	Catgut
USP No.	metric No.	mm	USP No.
11 – 0	0.1	0.010 – 0.019	
10 – 0	0.2	0.020 – 0.029	
9 – 0	0.3	0.030 – 0.039	
8 – 0	0.4	0.040 – 0.049	
7 – 0	0.5	0.050 – 0.069	
6 – 0	0.7	0.070 – 0.099	7 – 0
5 – 0	1	0.100 – 0.149	6 – 0
4 – 0	1.5	0.150 – 0.199	5 – 0
3 – 0	2	0.200 – 0.249	4 – 0
2 – 0	2.5	0.250 – 0.299	3 – 0
2 – 0	3	0.300 – 0.349	3 – 0
0	3.5	0.350 – 0.399	2 – 0
1	4	0.400 – 0.499	0
2	5	0.500 – 0.599	1
3 + 4	6	0.600 – 0.699	2
5	7	0.700 – 0.799	3
6	8	0.800 – 0.899	4
7	9	0.900 – 0.999	5
8	10	1.000 – 1.099	6

KNOT TYPES AND TECHNIQUES

KNOT TYPES

Correct

SQUARE KNOT, WEAVER'S KNOT

- Reliable
- Secure closure
- Good for ligatures

incorrect

THE GRANNY KNOT

- Unreliable
- Tends to loosen

correct

SURGICAL KNOT

- Very secure
- Good tension
- Not for ligatures

correct

SLIDING KNOT

- Good for knots deep down
- Good for ligatures

KNOT TECHNIQUE

correct

incorrect

1 = 1

1 x 1

1 = 1 throws are in the opposite direction (sailer's knot = weaver's knot)

1 = 1 = 1

1 x 1 x 1

1 x 1 throws are not in the opposite direction (known as a woman's knot)

2 = 1

2 x 1

TIPS FOR THE RIGHT KNOT

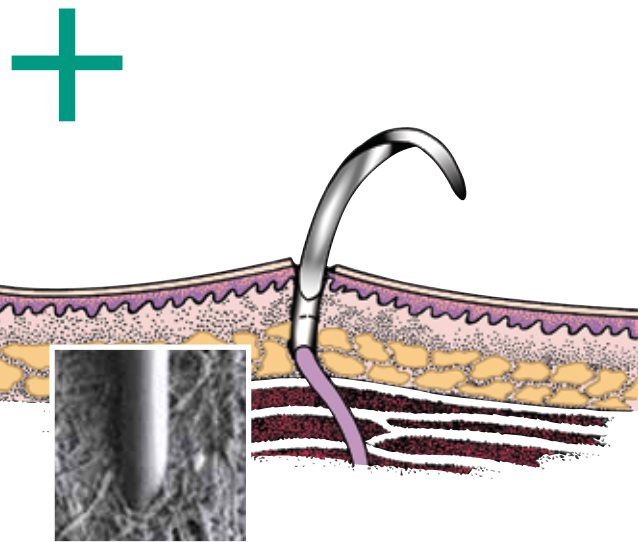
- Do not place the knot directly over the edge of the wound but next to it if possible.
- Avoid rubbing and damaging the thread when tying the knot.
- The simplest knot is the best (depending on the material).
- The finished knot must be tied tightly enough so that it cannot slip out of place at a later time.
- Avoid strangling tissue (risk of tissue necrosis).
- The first knot is the most important. The other knots just secure the first knot.
- Tie as many knots to secure the suture as necessary, but also as few as possible.
- Always tie the knot as small as possible and keep the ends as short as possible.

SPECIALIST INFORMATION

NEEDLE-THREAD COMBINATIONS

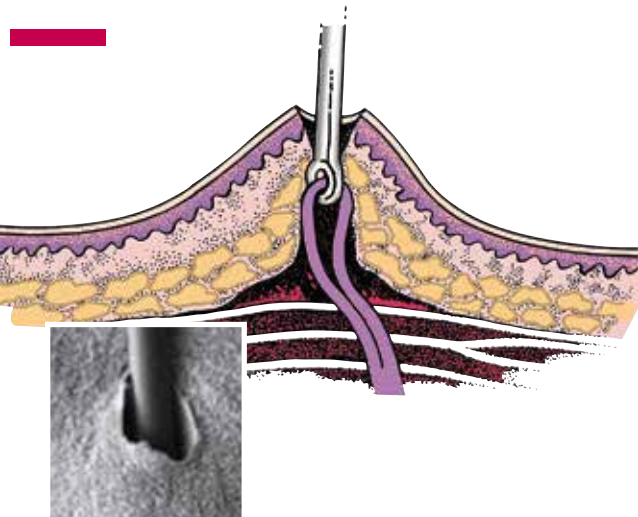
Based on decades of research and development, B. Braun offers you a range of suture material and equipment designed to meet the needs of veterinary surgery.

For your practice we recommend atraumatic needle-thread combinations:
 B. Braun needles excel in durable quality and precise performance. Thanks to the smooth transition between needle and thread, the puncture channel is limited to the pre-determined needle size and micro tissue tears are prevented.



ATRAUMATIC NEEDLE-THREAD COMBINATIONS

- Minimal wound trauma
- Secure union of needle and thread
- Smooth transition between needle and thread
- Always new, sterile and sharp needles
- No time-consuming threading
- Needle and thread diameter determined according to the indication



SPRING EYE NEEDLES – TRAUMATIC

- Wound trauma through doubling of the thread
- Damage to the thread caused by catching in the spring eye
- No secure fit of the thread in the needle eye
- Time-consuming threading of the thread in the normal eye

SUTURE MATERIAL PACKAGING

DDP – THE USER-FRIENDLY DIRECT DISPENSE PACKAGING



DDP (DIRECT DISPENSE PACKAGING)

- Clear and effective labelling
- Easy to tear open the foil wrap along the marked area
- Easy to open the foil wrap in the direction of the arrow
- In double sterile packaging

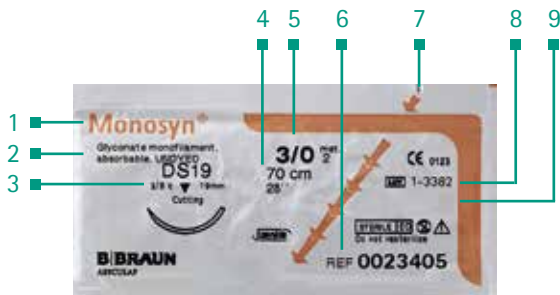
NEEDLE-THREAD COMBINATIONS

- Direct and precise dispensation with the needle holder

SHORT THREADS (PRECUTS)

- Simple, kink-free, knot-free, individual dispensation "thread by thread"

LABELLING ON THE PACKAGING



1	Product name
2	Description of the thread / material
3	Needle description and illustration
4	Thread length
5	Thread diameter
6	Article number / Order number
7	Instructions for opening the foil wrap / packaging
8	Batch number
9	Use by: Year and month

SPECIALIST INFORMATION

NEEDLES FOR VETERINARY SURGERY

All standard needles are high-quality Easyslide needles.
Easyslide – the special, atraumatic needle

HIGH QUALITY 300 SERIES STAINLESS STEEL

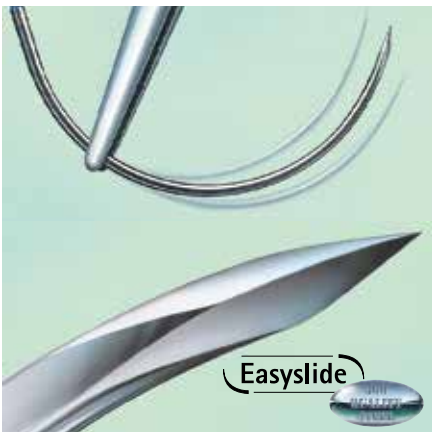
- Result of extensive research and clinical testing

HIGH BENDING AND BREAKING STRENGTH

- Very smooth surface finish
- Flattened needle body prevents the needle rotating in the needle holder

LASER-DRILLED ENDS

- Outstanding, atraumatic needle-thread transition



Needle curvature	Needle body	Needle tip	Needle length	Further information
S 1/8 circle	R Round body	T Trocar tip	The numbers indicate the distance in mm between the needle tip and needle end, measured on the external curve of the needle.	s Strong needle body
V 1/4 circle	S Cutting	N Blunt tip		ss Very strong needle body
D 3/8 circle	L Lancet	S Cutting tip		v Break-off needle
H 1/2 circle	SP Spatula	C Short, cutting tip		
F 5/8 circle		MP Microtip / Precision		
G Straight		m Micro-needle		
P Progressive / Asymptotic				
J Hook				

SK Ski

Needle curvature	Needle body	Needle tip	Needle length	Further information
H	R	T	37	s

Example 1: HRT 37s = 1/2 circle round bodied needle with trocar tip, length 37 mm, strong needle body

D	S	MP	16	
---	---	----	----	--

Example 2: DSMP 16 = 3/8 circle needle body, cutting, microtip / precision, length 16 mm

H	S		19	
---	---	--	----	--

Example 3: HS 19 = 1/2 circle needle body, cutting, length 19 mm

CUTTING NEEDLES

DS | HS ▼

Cutaneous needles: The three-edged external cutting body of the needle is ideal for suturing tough tissue. The three edges run along the entire needle length and provide optimum piercing capability alongside a reliable, cosmetic result.

CUTTING NEEDLES WITH MICROTIPS

DSMP ▼

The cutting tip of this slimline precision needle is hand-cut and, with minimal trauma, allows very good tissue penetration, fine sutures in tough tissue and good cosmetic results.

ROUND BODIED NEEDLES

HR | GR ●

The round body of the needle tapers into a fine, sharp needle tip. The body flattens out in the middle section of the needle, which ensures a secure fit in the needle holder. Round bodied needles only pierce the tissue, they do not cut it, so they are highly suitable for suturing soft tissue.

ROUND BODIED NEEDLE WITH TROCAR TIP

DRT | HRT ⊕

The round bodied needle has a four-sided cutting tip. This allows tough tissue to be easily pierced with minimal trauma.

ROUND BODIED NEEDLE WITH SHORT, CUTTING TIP

DRC ⊗

The specially shaped round bodied needle with short cut tip makes tough tissue easier to pierce. The special needle for fine anastomoses and difficult tissue conditions.

ROUND BODIED NEEDLE WITH BLUNT TIP

HRN ○

The needle body tapers into a round tip which does not cut through the tissue. Particularly suitable for suturing parenchymal tissue.

LANCET (SPATULA) NEEDLES

HLM | DLM | PLM | VLM ▼

The lancet needle is a variant of the spatula needle. Special needle tip designed to pass through ophthalmic structures without damaging the upper and lower layer of stroma.

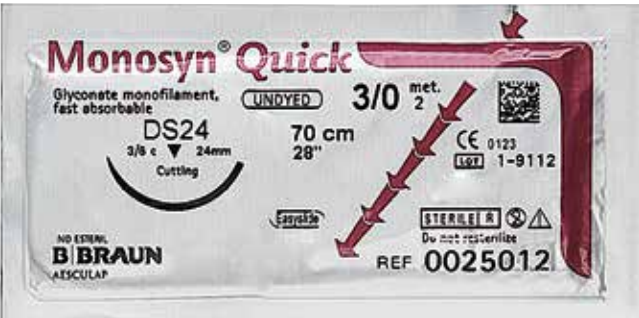


ABSORBABLE SUTURE MATERIAL
 Monosyn® Quick | ~ 6 – 7 days absorption time

FAST AND MONOFILAMENT

- Good handling
- Outstanding absorption profile for fast healing tissue
- Good initial knot tensile strength
- Outstanding histocompatibility

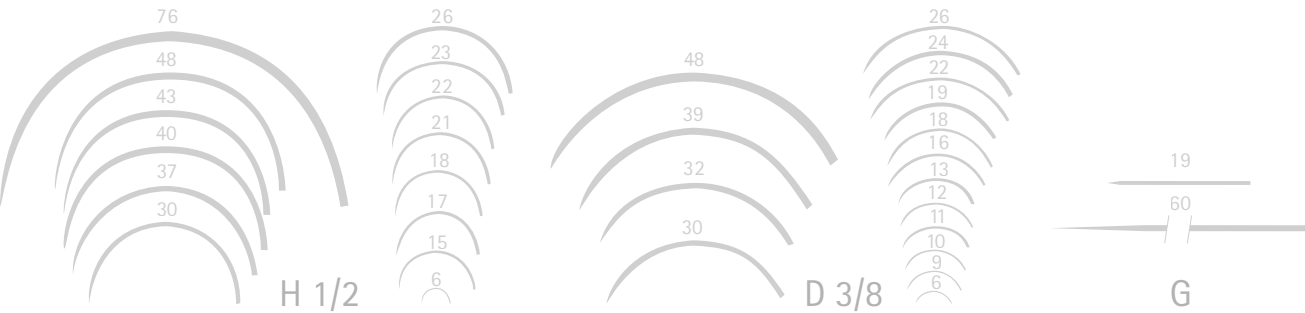
The outstanding, short-term absorbable, monofilament thread for suturing fast healing tissue.



Monosyn® Quick description

Structure	Monofilament uncoated
Chemical composition	Glyconate ■ Trimethylglycolide: 72 % ■ Trimethylene carbonate: 14 % ■ ε – Caprolactone: 14 %
Colour	undyed
Knot tensile strength retention	~ 5 days p.i. 70 % ~ 6 – 7 days p.i. 50 % ~ 10 days p.i. 10 %
Mass absorption	~ 56 days
Indications	■ Intracutaneous skin closure ■ Urology ■ Gynecology ■ Dental surgery
Contraindications	Indications that require permanent support by implantation of mid-term, long-term or non-absorbable suture material.
Recommended fixation	2 = 1 = 1 = 1 1 = 1 = 1 = 1
Diameter	USP 1 – USP 6/0

Monosyn® Quick		USP metric							
Needles	Length cm	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5
▼ 3/8 circle cutting needle									
DS 19	45			C0025002	C0025003				
DS 19	70			C0025007	C0025008				
DS 24	70				C0025012	C0025013			
DS 30	70				C0025014	C0025015			
▼ 3/8 circle cutting needle, precision tip									
DSMP 11	45		C0025021						
DSMP 13	45	C0025023		C0025025					
DSMP 16	45		C0025028	C0025029	C0025030				
DSMP 19	45		C0025031	C0025032	C0025033				
DSMP 19	70			C0025036	C0025037				
DSMP 24	45			C0025039	C0025040				
DSMP 24	70			C0025042	C0025043				
● 5/8 circle round bodied needle									
FR 26	70					C0025047			
● 1/2 circle round bodied needle									
HR 26	70			C0025057	C0025058	C0025059			
HR 37s	70				C0025064	C0025065	C0025066	C0025067	
HR 37s	90				C0025070	C0025071	C0025072	C0025073	
HR 40s	70					C0025076	C0025077	C0025078	
HR 40s	90				C0025080		C0025082	C0025083	
HR 48	90						C0025087	C0025088	
⊕ 1/2 circle round bodied needle, trocar tip									
HRT 37	90					C0025091			
HRT 37	120					C0025096			
HRT 37s	70					C0025103			



ABSORBABLE SUTURE MATERIAL

Monosyn® | ~ 14 days absorption time

THE STANDARD IN SOFT TISSUE SURGERY

- Wide indication field
- Non-pH-dependent degradation
- Outstanding knot tensile strength
- Particularly suitable for ligatures
- Good elongation properties

The monofilament thread for universal use in soft tissue surgery.



Monosyn® description	
Structure	Monofilament uncoated
Chemical composition	Glyconate ■ Trimethylglycolide: 72 % ■ Trimethylene carbonate: 14 % ■ ε – Caprolactone: 14 %
Colour	dyed, undyed
Knot tensile strength retention	~ 7 days p.i. 70 % ~ 14 days p.i. 50 % ~ 21 days p.i. 20 %
Mass absorption	~ 60 – 90 days
Indications	■ Skin ■ Mucosa ■ Sub- and intracutaneous Sutures ■ Gastrointestinal tract ■ Urogenital tract ■ Ligatures ■ Castration ■ Muscles
Contraindications	Indications that require permanent support by implanta- tion of long-term or non-absorbable suture material.
Recommended fixation	2 = 1 = 1 = 1 1 = 1 = 1 = 1
Diameter	USP 2 – USP 6/0

Monosyn®		USP metric							
Needles	Length cm	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5
● 1/2 circle round bodied needle									
HR 13	70	C0022007	C2022008	C0024004					
HR 17	70	C0022002	C2022003	C2022004	C2022005				
HR 22	70			C2022014	C2022015	C0022016			
HR 22s	70						C0024147		
HR 26	70			C2022024	C2022025	C0022026	C0022027	C0022028	
HR 26s	70			C0022084	C0022085	C0022086	C0022087	C0022088	C0022089
HR 26s	90					C0022486			
HR 37	70				C0022045	C0022046	C0022047	C0022048	C0022049
HR 37	90						C0022447		
HR 40s	70					C0022066	C0022067	C0022068	C0022069
HR 48	90					C0022076	C0022077	C0022078	
⊕ 1/2 circle round bodied needle, trocar tip									
HRT 17	70	C0022322	C0022323	C0022324	C0022325				
HRT 26	70			C0022304	C2022305	C0022306	C0022307		
HRT 37	70					C0022316	C0022317	C0022318	
HRT 37s	90					C0022456	C0022457	C0022458	
HRT 40	90						C0022527	C0022528	
HRT 48	90							C0022333	
● 3/8 circle round bodied needle, trocar tip									
DRT 18	70		C0022343	C0022344					
DRT 22	70			C2022354	C2022355				
DRT 26	70				C0022365	C0022366			
DRT 32	70						C0022377	C0022378	

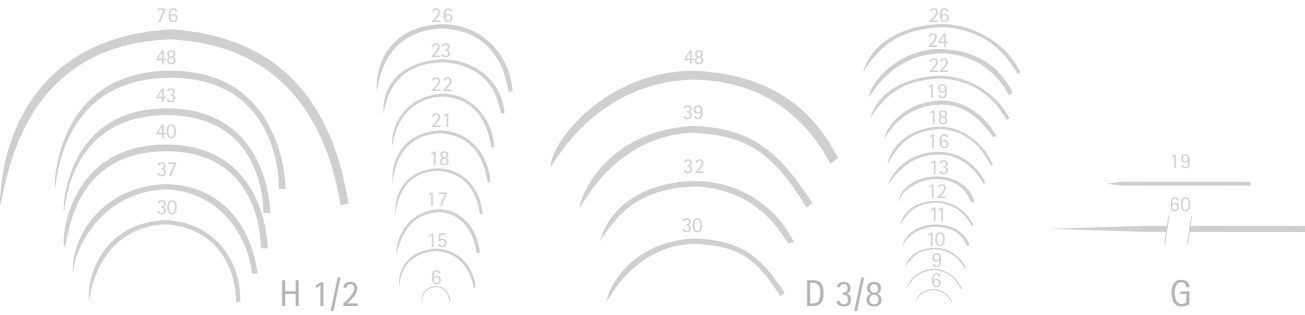


ABSORBABLE SUTURE MATERIAL

Monosyn® | ~ 14 days absorption time

Monosyn®									
USP metric									
Needles	Length cm	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5
3/8 circle round bodied needle, short cutting tip									
DRC 12	70	C0022392	C0022403						
1/2 circle cutting needle									
HS 26	70				C2022236	C2022237			
HS 26s	70				C0022241	C2022242	C0022243		
HS 37s	45								
HS 37s	70					C0022247	C0022248	C0022249	
3/8 circle cutting needle									
DS 12	45	C0022102	C0022103	C0022104					
DS 12	70	C2023412	C2023413	C2023414					
DS 16	45		C2022419	C0022420	C0022421				
DS 19	45			C0022504	C0022505				
DS 19	70			C2022204	C2022205				
DS 24	70			C0022214	C2022215	C0022216	C0022217		
DS 24	45				C0022115				
DS 26	70								
DS 30	70					C0022231	C0022232	C0022233	
3/8 circle cutting needle, precision tip									
DSMP 11	45	C2023642	C2023643						
DSMP 13	45	C0023602	C2023603	C2023604					
DSMP 19	45			C2023624					
Straight cutting needle									
GS 51	70			C0023279	C0023280	C0023281			
GS 60	70			C0023284	C2023285	C0023286			

Monosyn®									
USP metric									
Needles	Length cm	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5
Pre Cuts									
	3 x 45			C0020004	C0020005	C0020006	C0020007	C0020008	
	5 x 70				C0020025	C0020026	C0020027		
	140				C0020035	C0020036	C0020037	C0020038	
Finger reel									
	250					G0020046	G0020047		



ABSORBABLE SUTURE MATERIAL
 Novosyn® | ~ 21 days absorption time

KNOT PERFECTION

- Outstanding knot retention
- Good knot properties
- Distinctly low tissue reaction

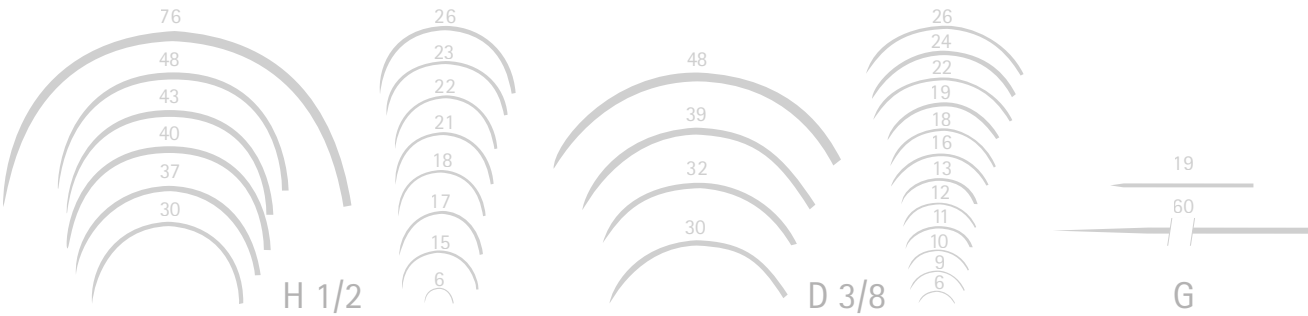
The combination of good knot properties with outstanding knot retention.



Novosyn® description

Structure	Polyfilament braided coated
Chemical composition	Materials: Poly(glycolide-co-l-lactide 90/10) Coating: Poly(glycolide-co-l-lactide 35/65) + CaSt
Colour	violet
Knot tensile strength retention	~ 14 days p.i. 75 % ~ 21 days p.i. 50 % ~ 28 days p.i. 25 %
Mass absorption	~ 56 – 70 days
Indications	■ Subcutaneous suture ■ Abdominal wall closure ■ Muscles ■ Ligatures ■ Ophthalmology
Contraindications	Indications that require permanent support by implantation of long-term or non-absorbable or monofilament suture material.
Recommended fixation	2 = 1 = 1 = 1 1 = 1 = 1 = 1
Diameter	USP 2 – USP 8/0

Novosyn®					USP metric						
Needles	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5	
	1/2 circle round bodied needle										
HR 10	70		C0068002	C0068003							
HR 13	70		C0068006	C0068007							
HR 17	70		C0068011	C0068012	C0068013	C0068014	C0068015				
HR 17s	70				C0068113	C0068114					
HR 22	70				C0068029	C0068030	C0068031	C0068032			
HR 26	70				C0068040	C0068041	C0068042	C0068043	C0068044		
HR 26s	70					C0068089	C0068090	C0068091	C0068092	C0068093	
HR 26s	90						C0068590				
HR 26ss	70								C0068100	C0068793	
HR 30	70					C0068046	C0068047	C0068048	C0068049		
HR 37	70						C0068051	C0068052	C0068053		
HR 37s	70						C0068095	C0068096	C0068097	C0068098	
HR 37s	90						C0068596	C0068956	C0068597		
HR 40s	70							C0068056	C0068057		
HR 40s	90							C0068556	C0068557	C0068558	
HR 43	70							C0068946	C0068947		
HR 43	90										
HR 48	70					C0068099	C0068060	C0068061	C0068062	C0068063	
HR 48	90						C0068560	C0068561	C0068562		
HR 60	70								C0068066	C0068068	



ABSORBABLE SUTURE MATERIAL

Novosyn® | ~ 21 days absorption time

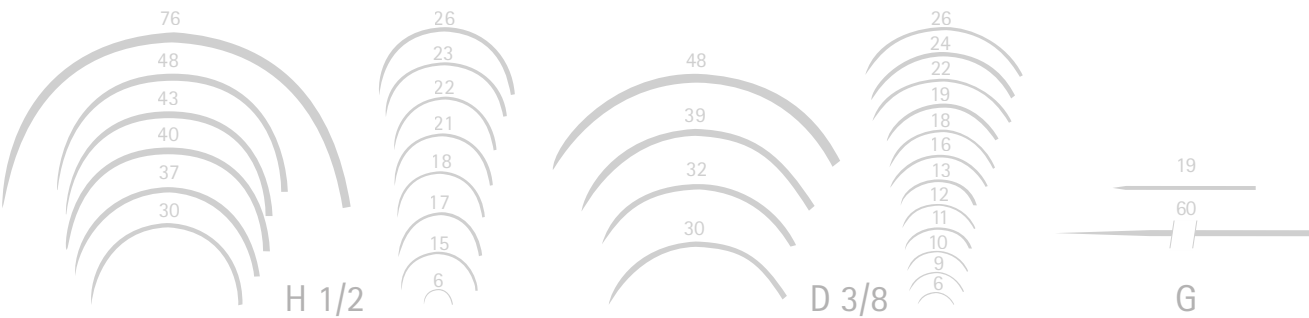
Novosyn®											USP metric
Needles	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5	
▼ 1/2 circle cutting needle											
HS 15	45				C0068203	C0068204					
HS 21	45					C0068225	C0068226				
HS 26	70						C0068241	C0068242	C0068243		
HS 26s	70						C0068290	C0068291			
HS 37	90									C0068497	
HS 37s	70						C0068294	C0068296	C0068297	C0068298	
HS 37s	90						C0068596	C0068582	C0068583		
HS 48	70						C0068691				
HS 48	90							C0068461	C0068462		
▼ 1/2 circle cutting needle, short											
HRC 17	70				C0068312	C0068313	C0068314		C0068316		
⊕ 3/8 circle round bodied needle, trocar tip											
DRT 18	70					C0068320					
⊕ 1/2 circle round bodied needle, trocar tip											
HRT 37	90						C0068651		C0068653		
HRT 37s	70						C0068395				
HRT 37s	90							C0068533	C0068534		
HRT 48	90									C0068502	
▼ 3/8 circle needle, precision tip											
DSMP 19	70					C0068824					
DSMP 35	70							C0068690			

Novosyn®											USP metric	
Needles	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5		
● 3/8 circle round bodied needle												
DR 10	45	C0068101										
DR 12	70		C0068434									
DR 22	70				C0068159							
DR 26	70					C0068164	C0068165					
▼ 3/8 circle cutting needle												
DS 9	45	C0068202										
DS 12	45		C0068206	C0068207	C0068208							
DS 16	45			C0068212	C0068213	C0068214						
DS 19	45			C0068219	C0068220	C0068221						
DS 19	70			C0068419	C0068420	C0068421	C0068422					
DS 24	70				C0068234	C0068235	C0068236	C0068237				
DS 30	70					C0068246	C0068247	C0068248	C0068249			
DS 35	70										C0068259	
Pre Cuts												
	140				C0058204	C0058205	C0058207	C0058208	C0058209	C0058210		
	2 x 70				C0058404	C0058405	C0058406	C0058407	C0058409	C0058410		
	3 x 45					C0058625	C0058626	C0058627	C0058629	C0058630		
76 48 43 40 37 30 H 1/2 26 23 22 21 18 17 15 6 48 39 32 30 D 3/8 26 24 22 19 18 16 13 12 11 10 9 6 19 60 G												

ABSORBABLE SUTURE MATERIAL

Novosyn® | ~ 21 days absorption time

Novosyn®		USP metric								
Needles	Length cm	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4
Needle-thread combination (small packs of 12 boxes)										
DRM 6	20	G0068145								
DRM 6	35	G0068146								
DRTM 8	45			G0068388						
DLM 6s	30		G0068621							
DLM 6	15	G0068615								
2XVLM 6	30			G0068616						
DSMP 13	45				G0068623					
2XDLM 6s	45		G0068711							



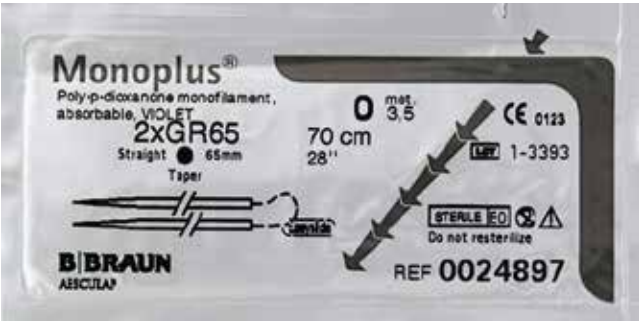
ABSORBABLE SUTURE MATERIAL

MonoPlus® | ~ 35 days absorption time

WHEN SUTURING REQUIRES TIME

- Long-lasting tensile strength for a long wound approximation
- No capillarity
- Atraumatic tissue pull-through
- Very good handling due to high flexibility
- High knot security

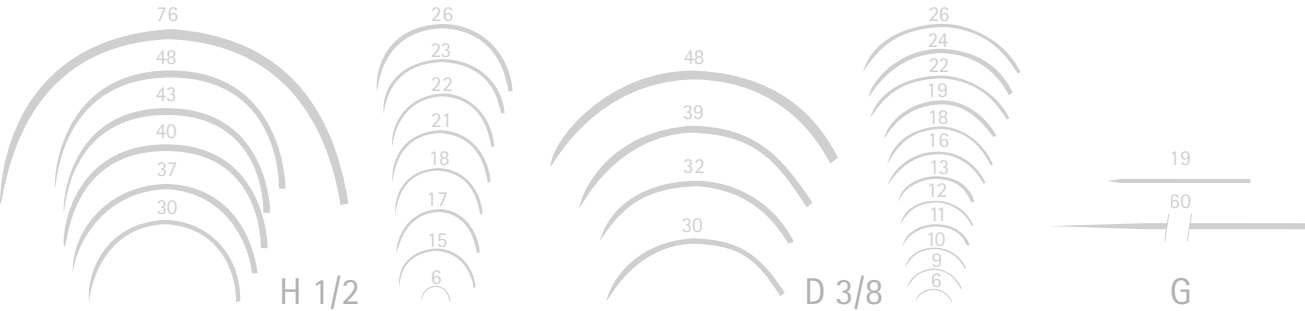
Flexible, monofilament thread for long-lasting wound closure.



MonoPlus® description

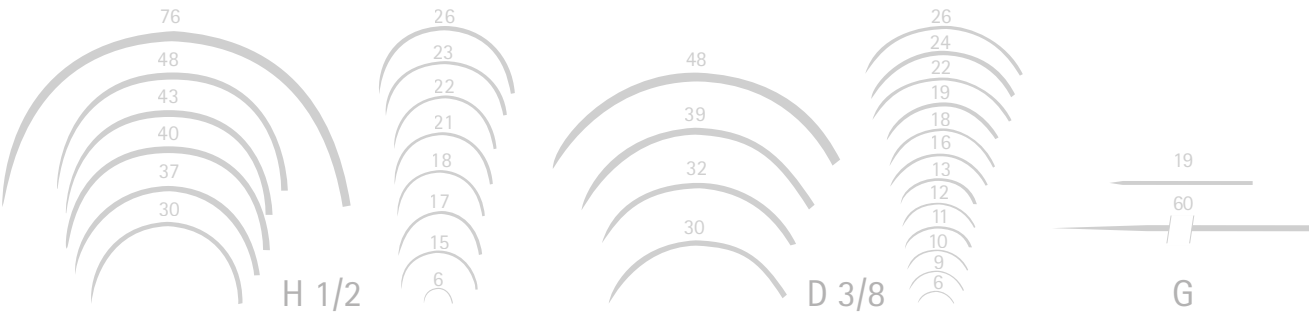
Structure	Monofilament uncoated
Chemical composition	Poly-p-dioxanone
Colour	violet
Knot tensile strength retention	~ 21 days p.i. 80 % ~ 35 days p.i. 50 % ~ 70 days p.i. 0 %
Mass absorption	~ 180 – 210 days
Indications	■ Abdominal wall closure ■ Fascias ■ Orthopaedic surgery ■ Gastrointestinal tract ■ Hernias ■ Vascular surgery
Contraindications	Indications that require permanent support by implantation of non-absorbable suture material.
Recommended fixation	2 = 1 = 1 = 1 1 = 1 = 1 = 1
Diameter	USP 2 – USP 7/0

MonoPlus®		USP metric								
Needles	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5
● 1/2 circle round bodied needle										
HR 13ss	70									C0024207
HR 17	70		C0024012	C0024013	C0024014	C0024015				
HR 22	70			C0024133	C0024134	C0024135	C0024136			
HR 26	70				C0024024	C0024025	C0024026	C0024027		
HR 26s	70					C0024085	C0024086	C0024087	C0024088	
HR 30	70				C0024034	C0024035	C0024036	C0024037	C0024038	
HR 37s	70					C0024055	C0024056	C0024057	C0024058	
HR 40s	90							C0024467	C0024468	B0024469
HR 43s	90							C0024401	C0024402	
HR 48	90							B0024077	C0024078	B0024079
⊕ 1/2 circle round bodied needle, trocar tip										
HRT 17	70			C0024283	C0024284	C0024285	C0024286			
HRT 22	70				C0024294	C0024295				
HRT 26	70					C0024305	C0024306			
HRT 30	70						C0024311			
HRT 37	90							C0024517	C0024518	
⊙ 3/8 circle round bodied needle, short cutting tip										
2 x DRC 10	70	C0024721	C0024722							
DRC 12	70		C0024232	C0024233						
Straight needle										
2 x GR 19	45				C0024984					
	45					C0024985				



ABSORBABLE SUTURE MATERIAL
 MonoPlus® | ~ 35 days absorption time

MonoPlus®					USP metric					
Needles	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5
⊕ 1/2 circle round bodied needle, trocar tip										
HRT 40s	90							C0024545	C0024546	
HRT 43s	90							C0024352	C0024353	
HRT 48	90							C0024332	C0024333	
● 1/2 circle round bodied needle, cutting tip										
HS 23s	70								C0024108	
HS 26s	70						C0024186	C0024187		
HS 37	90						C0024104	C0024105	C0024106	
HS 37s	70						C0024156	C0024157	C0024158	
HS 40s	90						C0024121	C0024122		
HS 40	90							C0024117	C0024118	
HS 48	90							C0024127	C0024128	
Equine surgery										
HR 40s	150							B0024567	B0024568	
HR 48	150								B0024091	
HR 65	150									
HR 65	240								B0024107	
HR 76	150								B0024098	
HRT 40s	150								B0024343	
HRT 43	150								B0024347	
HRT 48	150								B0024393	
HRT 48	200								B0024392	



NON-ABSORBABLE SUTURE MATERIAL

Optilene®

POLYPROYLENE/ POLYETHYLENE OF HIGHEST QUALITY AND PERFORMANCE

- High, durable tensile strength
- The knot sits reliably
- Optimal handling properties
- Very good tissue pull-through
- Outstanding tissue tolerability

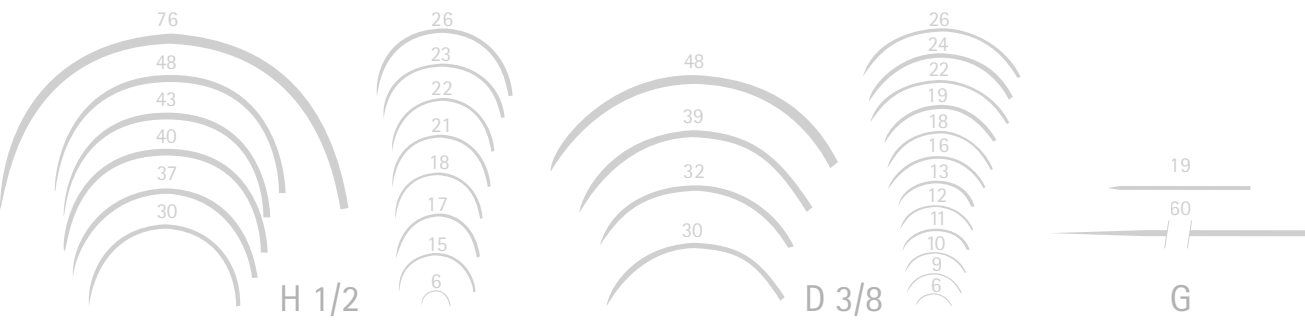
The non-absorbable monofilament for a wide field of indications.



Optilene® description

Structure	Monofilament uncoated
Chemical composition	Polypropylene / Polyethylene
Colour	blue
Indications	■ Skin closure ■ Ligaments ■ Vessels ■ Hernias ■ Tendons and capsular suturing ■ Nerves ■ Ophthalmology
Contraindications	None known
Recommended fixation	2 = 1 = 1 = 1 = 1 1 = 1 = 1 = 1 = 1
Diameter	USP 1 – USP 10/0

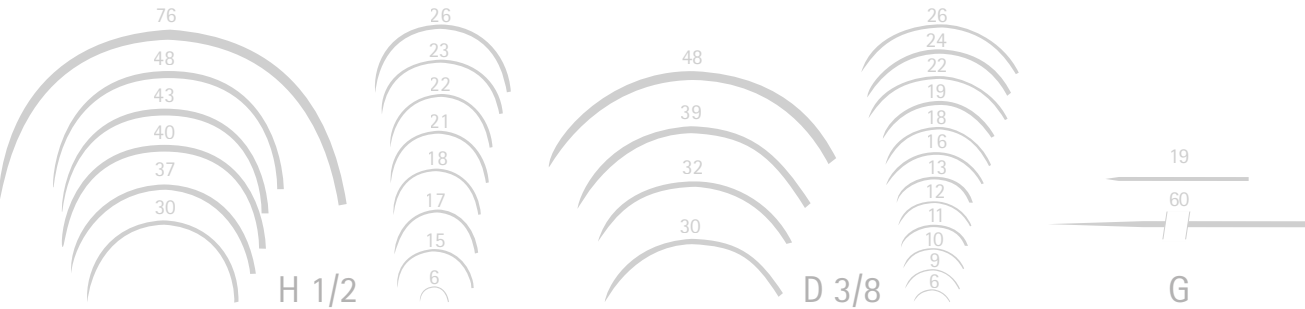
Optilene®		USP metric									
Needles	Length cm	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	
● 1/2 circle round bodied needle											
HR 17	75				C3090012	C3090013	C3090014				
HR 26	75					C3090040	C3090041	C3090042	C3090043		
HR 40	100										C3090100
⊕ 1/2 circle round bodied needle, trocar tip											
HRC17	75				C3090560	C3090561					
HRC 22	75					C3090565	C3090566				
HRC 26	75						C3095637	C3090474	C3095796		
⊕ 3/8 circle round bodied needle, trocar tip											
2 x DRC 13	75			C3095673	C3095671						
2 x DRT 12	75			C3095673							
DRC 18	75				C3095164	C3095165	C3095166				
⊙ 1/2 circle round bodied needle, short cutting tip											
2 x HRC 17	90				C3090570	C3090571					
2 x HRC 22	90					C3090580	C3090581				
⊙ 3/8 circle round bodied needle, short cutting tip											
2 x DRC 10	75		C3090545	C3090546							
DRC 13	75			C3095144	C3095145						
⊙ Progressive, asymptotic needle, short cutting tip											
2 x PRCm 6	60	G3090698									
2 x PRCm 10	75		G3090669	G3090668							



NON-ABSORBABLE SUTURE MATERIAL

Optilene®

Optilene®										
		USP metric								
Needles	Length cm	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4
▼ 1/2 circle cutting needle										
HS 26	45						C3090269	C3090270	C3090271	
▼ 3/8 circle cutting needle										
DS 12	45			C3090206	C3090207	C3090208				
DS 16	45				C3090212	C3090213				
DS 19	45				C3090219	C3090220	C3090221			
DS 19	75				C3090519	C3090520	C3090521			
DS 24	45					C3090434	C3090435	C3090436		
DS 24	75					C3090234	C3090235	C3090236	C3090237	
DS 30	75						C3090246	C3090247	C3090248	
▼ 3/8 circle cutting needle, precision tip										
DSMP 11	45		C3090606	C3095588	C3090608					
DSMP 13	45		C3090617	C3095589	C3095518	C3095910				
DSMP 19	75					C3095517	C3095983			
DSMP 24	75					C3095718	C3095708	C3090682		
● 3/8 circle round bodied needle										
DR 13	75				C3095931					
5 x DR 12	90				C3095661					
2 x DR 18	90					C3090920				
Needles	Length cm	10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3
▼ 3/8 circle lancet (spatula) needle, micro-needle										
DLM6s	15		G3090594							
2 x DLM6	30	G0090591								
2 x DLM6s	30	G3090596	G3090597							
● 1/2 circle round bodied needle, loop										
HR 65	240									B3095674



NON-ABSORBABLE SUTURE MATERIAL

Dafilon®

SKIN SUTURE – SECURE, GOOD PERFORMANCE, COST-EFFECTIVE

- Good knot tensile strength
- Gentle on the tissue
- The knot sits very well

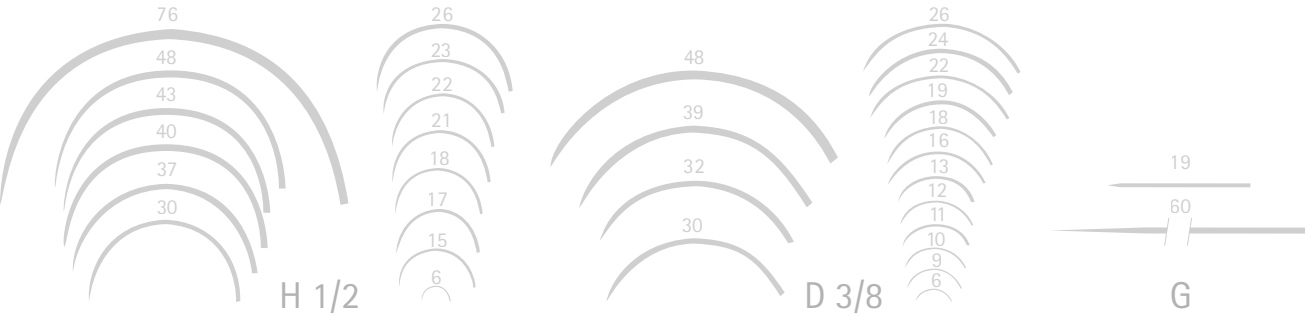
The good tissue tolerability has been proven to be particularly favourable for skin closure and in ophthalmology.



Dafilon® description

Structure	Monofilament uncoated
Chemical composition	Polyamide (Nylon)
Colour	blue, black
Indications	■ Skin ■ Ophthalmology
Contraindications	Indications that require long-term retention of the suture strength (> 2 years).
Recommended fixation	2 = 1 = 1 = 1 = 1 1 = 1 = 1 = 1 = 1
Diameter	USP 2 – USP 10/0

Dafilon®					USP metric						
Needles	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5	
▼	1/2 circle cutting needle										
HS 26	90					C0932957	C0934968				
HS 30	75								C0935034		
HS 48	75								C0932620		
▼	3/8 circle cutting needle										
DS 12	45		C0933066	C0933074							
DS 16	45		C0933112	C0933120	C0933139	C0932140					
DS 19	45			C0933198	C0933201	C0933210					
DS 19	75			C0933236	C0933244	C0933252					
DS 24	45				C0933341	C0933350	C0933368				
DS 24	75				C0933384	C0933392	C0933406				
DS 30	75					C0933457		C0935484			
DS 39	75							C0933562			
▼	3/8 circle cutting needle, precision tip										
DSMP 11	45		C0936022	C0936014							
DSMP 13	45		C0936081	C0936090	C0936103						
DSMP 19	75				C0936731	C0936740					
DSMP 24	75					C0936812	C0936820				



NON-ABSORBABLE SUTURE MATERIAL

Dafilon®

Dafilon®										
		USP metric								
Needles	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5
▼ Straight cutting needle										
GS 51	90									C0935573
GS 60	75					C0932655	C0932663			
Needles	Length cm	10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 2.5
Needle-thread combinations (small packs of 12 boxes)										
DLM 6	15	G1118722	G1118730							
DLM 6s	15	G1118781	G1118790	G1118579						
2xDLM 6	30	G1118706	G1118714							
2xDLM 6s	30	G1118765	G1118773							
DLM6s	45			G1118854						
HLM 6	15	G1118625	G1118633							
2x HLM 6	30	G1118609	G1118617							
2xPLm 5	20	G1111922								



NON-ABSORBABLE SUTURE MATERIAL

Supramid®

FLEXIBLE, STRONG, RELIABLE

- No capillarity
- The knot sits extremely well
- Smooth tissue passage
- Gentle on the tissue

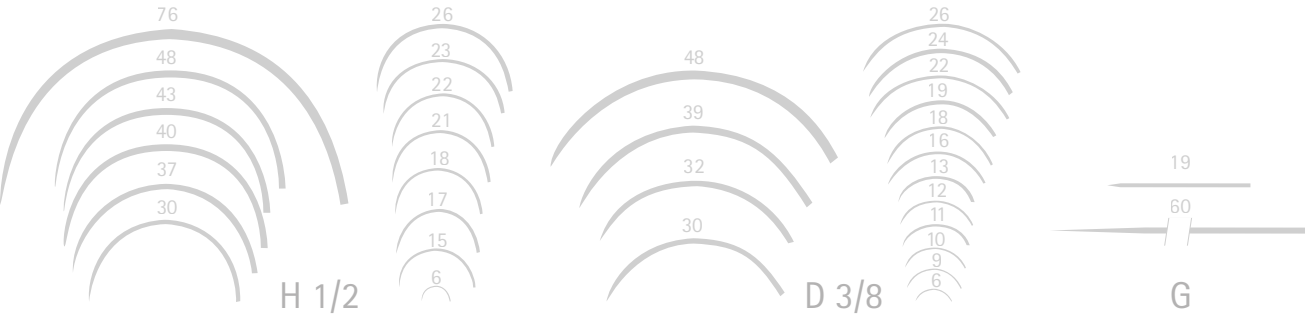
Good handling properties thanks to the combination of the positive characteristics of a monofilament thread with those of a polyfilament thread.



Supramid® description

Structure	Pseudomonofilament uncoated
Chemical composition	Polyamide 6.6 – Thread core Polyamide 6.6 – Coating
Colour	black, white
Mass absorption	2 – 4 years
Indications	■ Skin ■ Hernias ■ Ligatures
Contraindications	Indications that require long-term retention of the suture strength (> 2 years).
Recommended fixation	2 = 1 = 1 = 1 1 = 1 = 1 = 1
Diameter	USP 2 – USP 6/0

Supramid®					USP metric					
Needles	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5
▼ 1/2 circle cutting needle, black										
HS 15	45			C0712035	C0712043	C0712051				
HS 21	45			C0712248	C0712256	C0712264				
HS 26	75					C0712418	C0712426	C0712434		
▼ 1/2 circle cutting needle, white										
HS 30	75						C0692689			
HS 40s	120								B0694770	
HS 48	75								C0692859	
▼ Straight cutting needle										
GS 51	75						C0692964	C0692972		
▼ 3/8 circle cutting needle, black										
DS 12	45			C0712078	C0712086					
DS 16	45			C0712124	C0714135					
DS 19	45			C0712191	C0712205	C0712213	C0712221			
DS 19	75				C0714208	C0714216				
DS 24	45				C0712345	C0712353	C0712361	C0712370		
DS 24	75					C0714356	C0714364	C0714372		
DS 30	45					C0712469	C0712477	C0712485	C0712493	
DS 30	75							C0714488		
DS 39	75					C0712540	C0712558	C0712566	C0712574	
Pre Cuts										
	5 x 45				C0216445	C0216453	C0216461	C0216470		
	150						C0212067	C0212075	C0212091	C0212105



NON-ABSORBABLE SUTURE MATERIAL

PremiCron®

BRAIDED POLYESTER WITH B. BRAUN QUALITY

- Atraumatic tissue penetration
- Good tissue tolerability
- Good knot properties

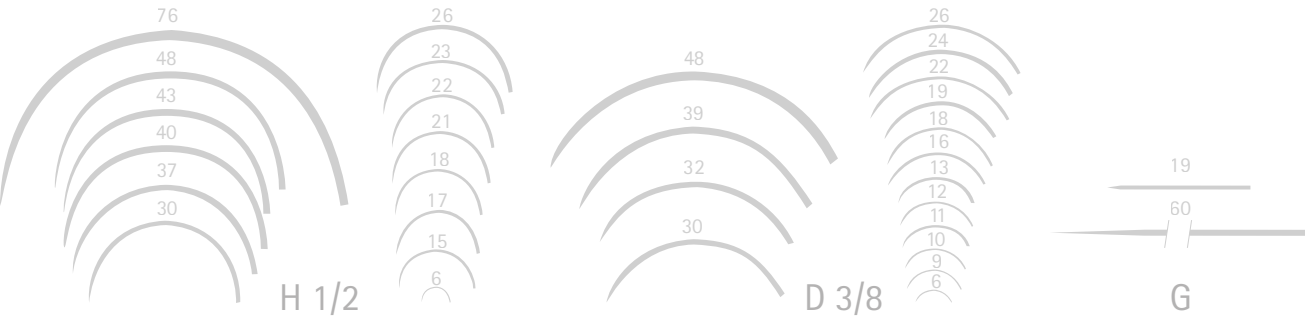
A high-quality braided thread with a smooth tissue pull-through.



PremiCron® description

Structure	Polyfilament braided coated
Chemical composition	Materials: Polyester Coating: Silicone
Colour	green, white
Indications	■ Cardiological surgery ■ Hernias ■ Orthopaedic surgery
Contraindications	None known
Recommended fixation	2 = 1 = 1 = 1 1 = 1 = 1 = 1
Diameter	USP 5 – USP 6/0

PremiCron®		USP metric									
Needles	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5	
⊕ 1/2 circle round bodied needle, trocar tip											
HRT 43	4 x 75										B0026718
HRT 37	75										C0026394
HRT 40s	75										
▼ 3/8 circle cutting needle											
DS 24	75							C0026516	C0026517		
DS 30	75							C0026531	C0026532	C0026533	
DS 39	75								C0026330	C0026331	C0026332
▼ 1/2 circle cutting needle											
HS 21	45					C0026200					
HS 26	75					C0026420	C0026421				
HS 37s	75							C0026467	C0026468		



NON-ABSORBABLE SUTURE MATERIAL

Silkam®

SMOOTH, TRIED AND TESTED

- The knot sits well
- Convenient handling

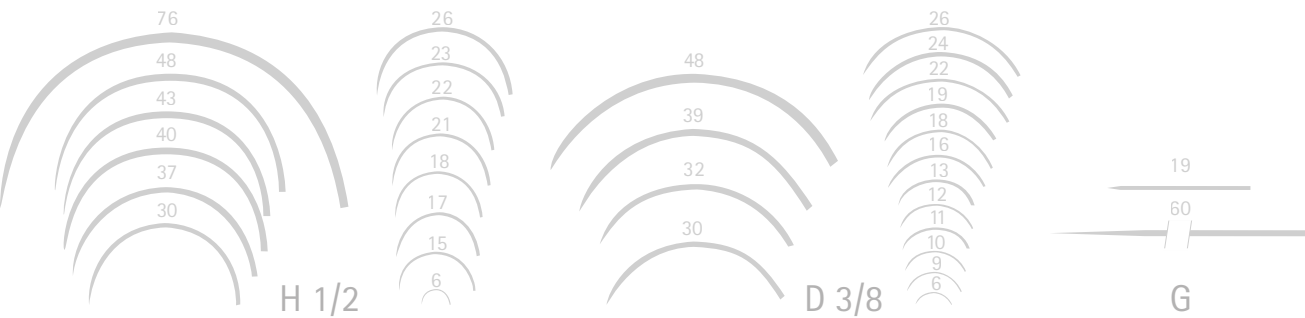
Silk threads lose their tensile strength due to gradual degradation in the body.



Silkam® description

Structure	Polyfilament braided coated
Chemical composition	Materials: Silk Coating: Wax and silicone coating
Colour	black, white
Indications	Dental
Contraindications	Indications that require long-term retention of the suture strength.
Recommended fixation	2 = 1 = 1 = 1 1 = 1 = 1 = 1
Diameter	USP 2 – USP 6/0

Silkam®					USP metric						
Needles	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5	
▼ 1/2 circle cutting needle, black											
GR 19	45	C0761290									
▼ 1/2 circle cutting needle, white											
HR 22	75				C0760293	C0760307	C0760315				
HR 26	75				C0760404	C0760412	C0760420	C0760439	C0760447		
▼ 3/8 circle cutting needle, black											
HS 21	45	C0762245			C0762253	C0762261					
HS 23	45					C0762300					
HS 26	75				C0762407	C0762415	C0762423	C0762431			
▼ 1/2 circle cutting needle, precision tip											
DS 12	45	C0762067	C0762075	C0762083	C0762091						
DS 16	45	C0762113	C0762121	C0762130	C0762148						
DS 19	45		C0762199	C0762202	C0762220	C0762229					
DS 19	75		C0765198	C0765201	C0765210	C0765228					
DS 24	75					C0762350	C0762369	C0762377			
DS 39	75						C0762598	C0762601	C0762610	C0762628	
Needles	Length cm	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	
▼ 3/8 circle, precision tip											
DSMP 13	45	C0766186			C0766194	C0766208					
DSMP 19	45					C0766690					
DSMP 24	45						C0766275				
Needles	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5	
Short threads											
	2 x 75									C0264105	
	5 x 75										
	10 x 45							C0266663			



NON-ABSORBABLE SUTURE MATERIAL

Steelex®

THE UNIVERSAL STEEL THREAD

- High tensile strength
- Good knot security
- Good tissue tolerability

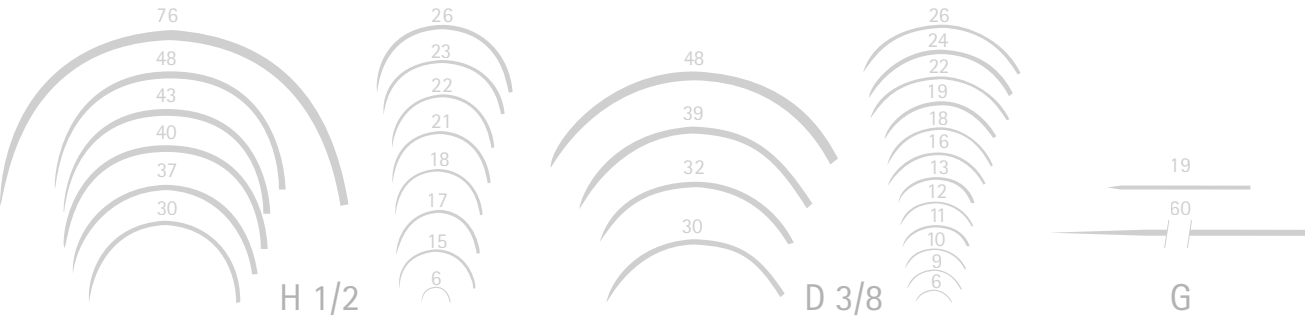
The thread for orthopaedic surgery.



Steelex® description

Structure	Polyfilament twisted
Chemical composition	corrosion-resistant surgical steel
Colour	metallic
Indications	■ Orthopaedic surgery ■ Tendons ■ Ligaments ■ Sternal sutures ■ Skin
Contraindications	Allergies against components of stainless steel.
Recommended fixation	2 = 1 = 1 = 1 1 = 1 = 1 = 1
Diameter	USP 2/0 – USP 5/0

Steelex®		USP metric									
Needles	Length cm	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	
▼ 3/8 circle, precision tip											
HS 26	45										G0612413
Short threads											
DS 19	45										G0612197
DS 24	45						G0612340	G0612359			
DS 30	45										G0612472



SUTURE MATERIAL SPECIALITY PRODUCTS

DENTAL

Operating techniques have been constantly developing over the past years in oral surgery. Where in the past non-absorbable suture material was used, high-quality synthetic absorbable threads available from B.Braun can now be used.

For modern-day oral surgery, B.Braun also offers a special range of needles specially designed for the suture material.

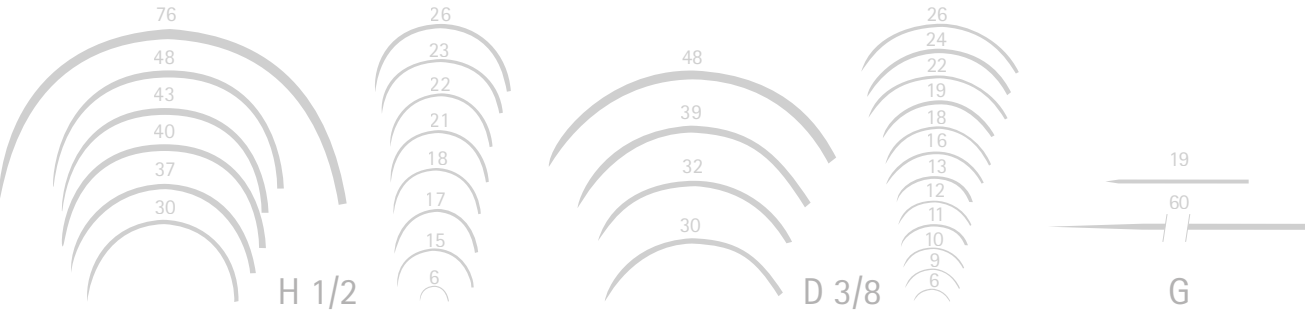
Indication	Recommended needle	Recommended thread	~ 50 % loss of tensile strength
Procedures in the gums and oral cavity	HS needle DS needle DSMP needle	Monosyn® Quick Glyconate, monofilament	~ 6 – 7 days
		Monosyn® Glyconate, monofilament	~ 14 days
		Novosyn® PGLA, polyfilament	~ 21 days
		Silkam® Silk, polyfilament	non-absorbable
Lobe operations Parodontal surgery Interdental space	GR needle HRT needle DRT needle HRC needle PRCm needle	Monosyn® Glyconate, monofilament	~ 14 days
		Novosyn® PGLA, polyfilament	~ 21 days
		MonoPlus® Poly-p-dioxanone, monofilament	~ 35 days
		Optilene® Polypropylene/Polyethylene, monofilament	non-absorbable
		Silkam® Silk, polyfilament	non-absorbable
Oral microsurgery	DSMP needle DRC needle DLm needle	Monosyn® Quick Glyconate, monofilament	~ 6 – 7 days
		Novosyn® PGLA, polyfilament	~ 21 days
		MonoPlus® Poly-p-dioxanone, monofilament	~ 35 days
		Optilene® Polypropylene/Polyethylene, monofilament	non-absorbable

Needles		USP metric									
	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5	
Monosyn® Quick											~ 6 – 7 days
▼ 3/8 circle cutting needle											
DS 12						C0025135					
DS 19	45					C0025002					
DS 19	70					C0025007	C0025008				
DS 24	70						C0025012				
DS 30	70							C0025015			
▼ 3/8 circle cutting needle, precision tip											
DSMP 11	45		C0025020								
DSMP 16	45			C0025028	C0025029						
DSMP 19	45			C0025031	C0025032						
DSMP 19	70				C0025036						
DSMP24	45					C0025040					
● 1/2 circle round bodied needle											
HR 26	70						C025059				
Monosyn®											~ 14 days
⊕ 1/2 circle round bodied needle, trocar tip, purple											
HRT 17	70		C0022322	C0022323	C0022324	C0022325					
HRT 26	70				C0022304	C222305					
▼ 3/8 circle cutting needle											
DSMP 11	45		C2023642	C2023643							
DSMP 13	45		C0023602	C2023603	C2023604						
											

SUTURE MATERIAL SPECIALITY PRODUCTS

DENTAL

Needles		USP metric									
	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5	
Novosyn®											~ 21 days
⊕	3/8 circle round bodied needle, trocar tip										
DRT 18	70					C0068320	C0068321				
DRT 22	70						C0068377				
▼	1/2 circle cutting needle, purple										
HS 15	45				C0068203	C0068204					
HS 21	45					C0068225	C0068226				
3/8 circle											
DS 12	45		C0068206	C0068207	C0068208						
DS 16	45			C0068212	C0068123						
DS 19	45			C0068219	C0068220	C0068221					
MonoPlus®											~ 35 days
●	Straight round bodied needle, purple										
2 x GR 19	45					C0024984	C0024985				
⊕	1/2 circle round bodied needle, trocar tip, purple										
HRT 17	70				C0024283	C0024284	C0024285				
HRT 22	70					C0024294	C0024295				
⊙	1/2 circle round bodied needle, short cutting tip, purple										
2 x DRC 10	70	C0024721	C0024722								
DRC 12	70		C0024232	C0024233							

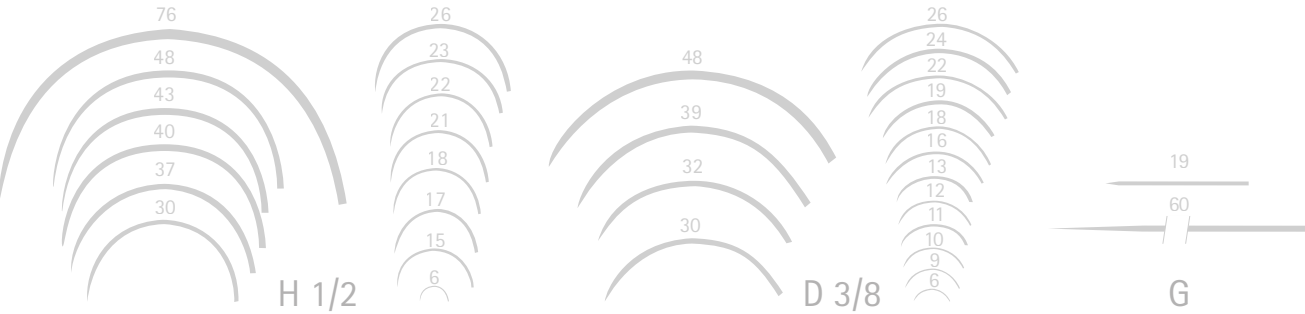


Needles		USP metric									
	Length cm	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	
Optilene®											non-absorbable
⊕	1/2 circle round bodied needle, trocar tip										
HRT 17	75					C3090560	C3095638				
HRC 22	75						C3090565	C3090566			
⊕	3/8 circle round bodied needle, trocar tip, blue										
2 x DRC 13	75				C3095673	C3095671					
DRC 18	70					C3095164	C3095165	C3095166			
⊙	1/2 circle round bodied needle, short cutting tip										
2 x HRC 17	90					C3090570	C3090571				
2 x HRC 22	90						C3090580	C3090581			
⊙	3/8 circle round bodied needle, short cutting tip										
2 x DRC 10	75			C3090545	C3090546						
DRC 13	75				C3095144	C3095145					
▼	3/8 circle cutting needle, precision tip										
DSMP 11	45			C3090606	C3095588	C3090608					
DSMP 13	45			C3090617	C3095589	C3095518	C3095910				
DSMP 16	45					C3090629	C3095499				
⊙	Asymptotic micro round bodied needle, short cutting tip, blue										
2 x PRCm 6	60			G3090698							
2 x PRCm 10	75				G3090669	G3090668					
▼	3/8 circle micro lancet needle, blue										
DLm 6s	15	G3090594									
2 x DLm 6s	30	G3090597									

SUTURE MATERIAL SPECIALITY PRODUCTS

DENTAL

Needles		USP metric									
	Length cm	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	
Silkam®											non-absorbable
⊕	1/2 circle round bodied needle, trocar tip, black										
HRT 17	75										C0763144
▼	1/2 circle cutting needle, black										
HS 15	45					C0762032	C0762040	C0762059			
HS 21	45					C0762245	C0762253	C0762261			
HS 23	45										C0762300
▼	3/8 circle cutting needle, black										
DS 12	45				C0762067	C0762075	C0762083	C0762091			
DS 16	45				C0762113	C0762121	C0762130	C0762148			
▼	3/8 circle cutting needle, precision tip, black										
DSMP 11	45				C0766070	C0766089					
DSMP 13	45				C0766186	C0766194	C0766208				



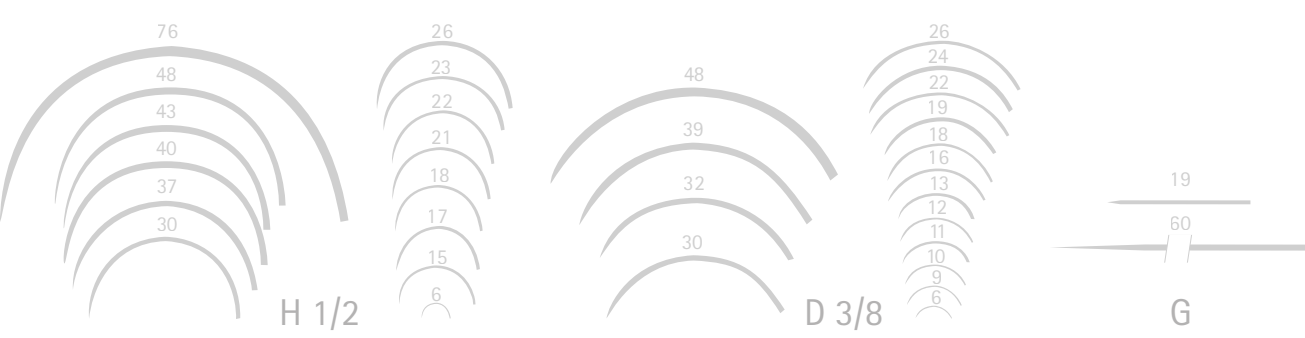
SUTURE MATERIAL SPECIALITY PRODUCTS

OPHTHALMOLOGY

Operations on the eye demand particularly high requirements for the composition of the suture material and the geometry of the needle.

In order to meet these requirements, B. Braun has developed a range of lancet needles, based on the spatula needle, specially for use on the eye.

Indication	Recommended needle	Recommended thread	~ 50 % loss of tensile strength
Lid operations and operations in the region of the eye	DRT needle	Novosyn® PGLA, polyfilament	~ 21 days
	DS needle	Monosyn® Glyconate, monofilament	~ 14 days
	DSMP needle		
		Monosyn® Quick Glyconate, monofilament	~ 6 – 7 days
Operations on the eye		Optilene® Polypropylene/Polyethylene, monofilament	non-absorbable
		Dafilon® Polyamide, monofilament	non-absorbable
	Lancet needles (spatula needles):	Monosyn® Quick Glyconate, monofilament	~ 6 – 7 days
	HLm needle	Optilene® Polypropylene/Polyethylene, monofilament	non-absorbable
	DLm needle		
	VLm needle	Dafilon® Polyamide, monofilament	non-absorbable
	PLm needle		

Needles		USP metric									
	Length cm	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	0 3.5	1 4	2 5	
Monosyn® Quick ~ 6 – 7 days											
▼ 3/8 circle cutting needle											
DS 12			C0025134	C0025135		C0025169					
DS 16	45			C0025125							
DS 19	70		C0025005								
▼ 3/8 circle cutting needle, precision tip											
DSMP 11	45		C0025020								
DSMP 13	45			C0025024	C0025025						
DSMP 16	45			C0025028							
DSMP 19	45				C0025032						
Monosyn® ~ 14 days											
⊕ 1/2 circle round bodied needle, trocar tip, purple											
HRT 17	70		C0022322	C0022323	C0022324						
▼ 3/8 circle cutting needle, uncoloured											
DS 12	70		C2023412	C2023413	C2023414						
▼ 3/8 circle cutting needle											
DSMP 11	45		C2023642	C2023643							
DSMP 13	45		C0023602	C2023603	C2023604						
											

SUTURE MATERIAL SPECIALITY PRODUCTS

OPHTHALMOLOGY

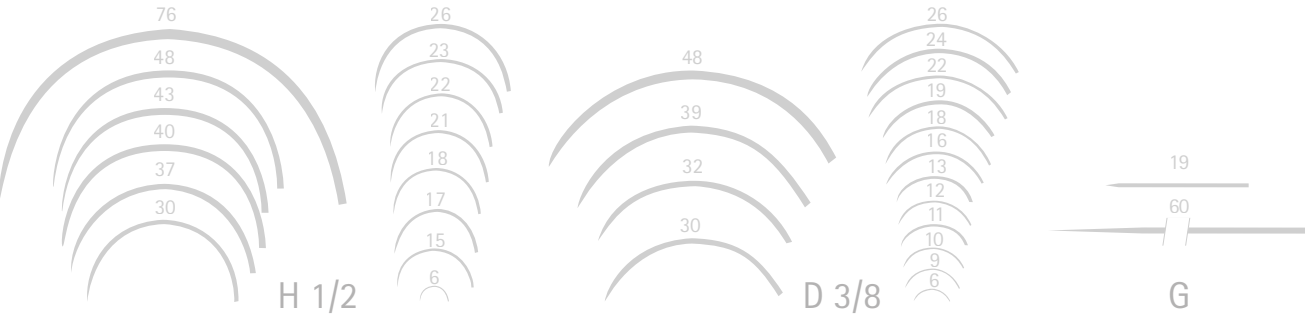
Needles		USP metric									
	Length cm	10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	
Novosyn®											~ 21 days
3/8 circle micro lancet needle											
DLm 6	15					G0068615					
DLm 6s	30					G0068620					
2x DLm 6	30					G0068702					
2xDLm 6s	30					G0068710					
2xDLm 6s	45					G0068711					
1/2 circle micro lancet needle											
2 x HLm 8	45					G0068734					
1/4 circle lancet needle, micro tip											
2 x VLM 8	45					G0068734	G0068735				
1/2 circle round bodied needle, trocar tip											
DRT 18	70							C0068320	C0068321		
DRT 22	70								C0068377		
3/8 circle cutting needle											
DS 9	45					C0068202					
DS 12	45					C0068206	C0068207	C0068208			

Needles		USP metric									
	Length cm	10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	
Dafilon®											non-absorbable
3/8 circle micro lancet needle											
DLm 6	15	G1118722	G1118730								
DLm 6s	15	G1118781	G1118790	G1118579							
2xDLm 6s	30	G1118765	G1118773								
DLm 6s	45			G1118854							
1/2 circle micro lancet needle											
HLm 6	15	G1118625	G1118633								
2 HLm 6	30	G1118609	G1118617								
Progressive asymptotic micro lancet needle											
2 x PLm 5	20	G1111922									
3/8 circle cutting needle											
DS 12	45					C0932060	C0932078	C0932086			
DS 16	45					C0932116	C0932124	C0932132			
3/8 circle cutting needle, precision tip											
DSMP 11	45					C0936022	C0936014				
DSMP 13	45					C0936081	C0936090	C0936103			

SUTURE MATERIAL SPECIALITY PRODUCTS

OPHTHALMOLOGY

Needles		USP metric									
	Length cm	10/0 0.2	9/0 0.3	8/0 0.4	7/0 0.5	6/0 0.7	5/0 1	4/0 1.5	3/0 2	2/0 3	
Optilene®											non-absorbable
3/8 circle micro lancet needle											
DLm 6s	15		G3090594								
2 x DLm 6	30	G3090591									
2 x DLm 6s	30	G3090596	G3090597								
3/8 circle round bodied needle, trocar tip											
2 x DRT 12	75					C3095673					
2 x DRC 13	75					C3095673	C3095671				
3/8 circle cutting needle											
DS 12	45					C3090206	C3090207	C3090208			
DS 16	45					C0090211	C3090212	C3090213			
3/8 circle cutting needle, precision tip											
DSMP 11	45				C3090606	C3095588	C3090608				
DSMP 13	45				C3090617	C3095589	C3095518	C3095910			



CASSETTES



- Convenient
- Economical
- B. Braun quality

USP metric	Length m	4/0 1.5	3/0 2	2/0 2.5	0 3.5	1 4	2 5	3 – 4 6	5 7	6 8
Safil® C		~ 18 days								
Finger reel										
	2.5	G1038714	G1038715	G1038716	G1038717	G1038719	G1038720	G1038721	G108722	G1038723
Hand reel										
	5						G1038230	G1038231	G1038232	G1038233
Cassette										
	15	F1038102	F1038103	F1038104	F1038105	F1038106	F1038107			
	25							F1038108	F1038109	F1038110
Monosyn®		~ 14 days								
Finger reel										
	250			G0030046	G0020047					
MonoPlus®		non-absorbable								
Cassette										
	25	F0024270	F0024271	F0024272	F0024273	F0024274	F0024275			
Dafilon®		non-absorbable								
Cassette, blue										
	100		F1934040	F1934058	F1934066	F1934074				
	75						F1934082	F1934090		

USP metric	Length m	4/0 1.5	3/0 2	2/0 2.5	0 3.5	1 4	2 5	3 6	4 6	5 7	6 8
Supramid®		non-absorbable									
Cassette, black											
	100	F1194038	F1194046	F1194054							
	75				F1194062	F1194070					
	50						F1194089	F1194097			
	25										F1194119
Cassette, white											
	100		F1184040	F1184059							
	75				F1184067	F1184075					
	50						F1184083	F1184091			
	25								F118405		F1184113
Silkam®		non-absorbable									
Cassette, white											
	100		F1124048	F1124056							
	75				F1124064	F1124072					
	50						F1124080	F1124099			
	25							F1124102		F1124110	F1124129
Cassette, black											
	100	F1134035	F1134043	F1134051							
	75				F1134060	F1134078					
	50						F1134086	F1134094			
	25							F1134108		F1134116	F1134124
Steelex®		non-absorbable									
Cassette											
	50	F1614037	F1614045	F1614053	F1614061						
	25					F1614070	F1614088				
	20							F1614096			

CASSETTES – ABSORBABLE SUTURES

Catgut® Plain



- Economical
- B. Braun quality

Natural absorbable suture made of pure collagen, manufactured from bovine intestine, from designated BSE free countries.

Catgut® Plain description

Structure	Monofilament twisted
Chemical composition	Natural purified collagen
Colour	Natural beige
Knot tensile strength retention	~ 7 – 10 days p.i. 50 %
Mass absorption	~ 70 – 90 days
Indications	■ Skin ■ Ligature ovary ■ Uterus
Contra-indications	Indications that require permanent support by implantation of mid-term or non-absorbable suture material.
Recommended fixation	2 = 1 = 1 = 1 1 = 1 = 1 = 1

Catgut® Plain										
Length m	USP metric									
	4/0 2	3/0 3	2/0 3.5	0 4	1 5	2 6	3 7	4 8	5 9	6 10
100	F1144030	F1144049	F1144057							
75				F1144065	F1144073					
50						F1144081	F1144090			
25								F1144103	F1144111	F1144120

CASSETTES – ABSORBABLE SUTURES

Catgut® Chrom



- Economical
- B. Braun quality

Natural absorbable suture made of pure collagen, manufactured from bovine intestine, from designated BSE free countries.

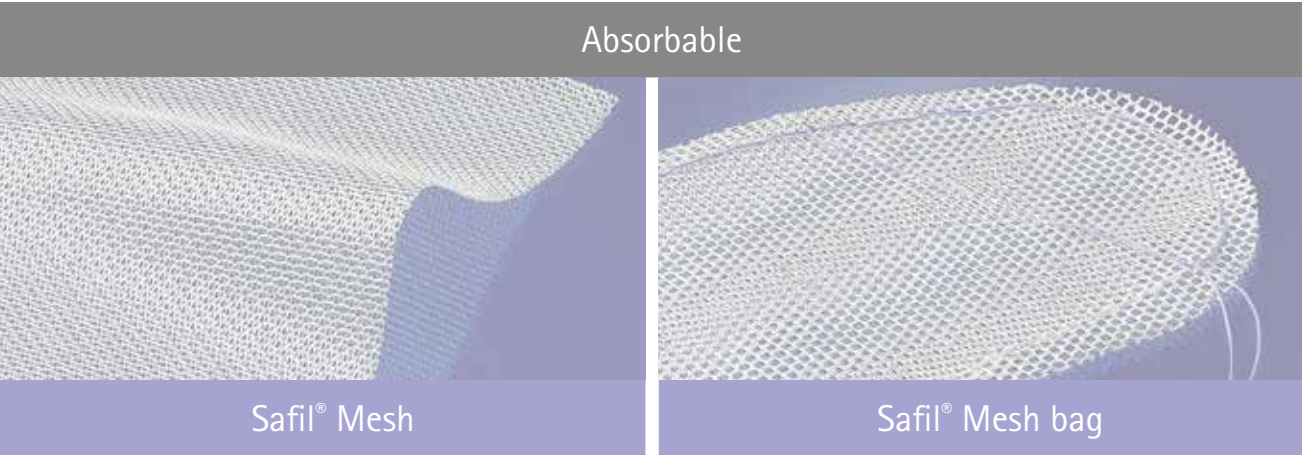
Catgut® Chrom description

Structure	Monofilament twisted treated
Chemical composition	Natural purified collagen Chrome treated
Colour	brown
Knot tensile strength retention	~ 14 – 18 days p.i. 50 %
Mass absorption	~ 90 – 120 days
Indications	■ Subcutis ■ Ligature ovary ■ Uterus
Contra-indications	Indications that require permanent support by implan- tation of long-term or non-absorbable suture material.
Recommended fixation	2 = 1 = 1 = 1 1 = 1 = 1 = 1

Catgut® Chrom										
Length m	USP metric									
	4/0 2	3/0 3	2/0 3.5	0 4	1 5	2 6	3 7	4 8	5 9	6 10
100	F1154036	F1154044	F1154052							
75				F1154060	F1154079					
50						F1154087	F1154095			
25								F1154109	F1154117	F1154125

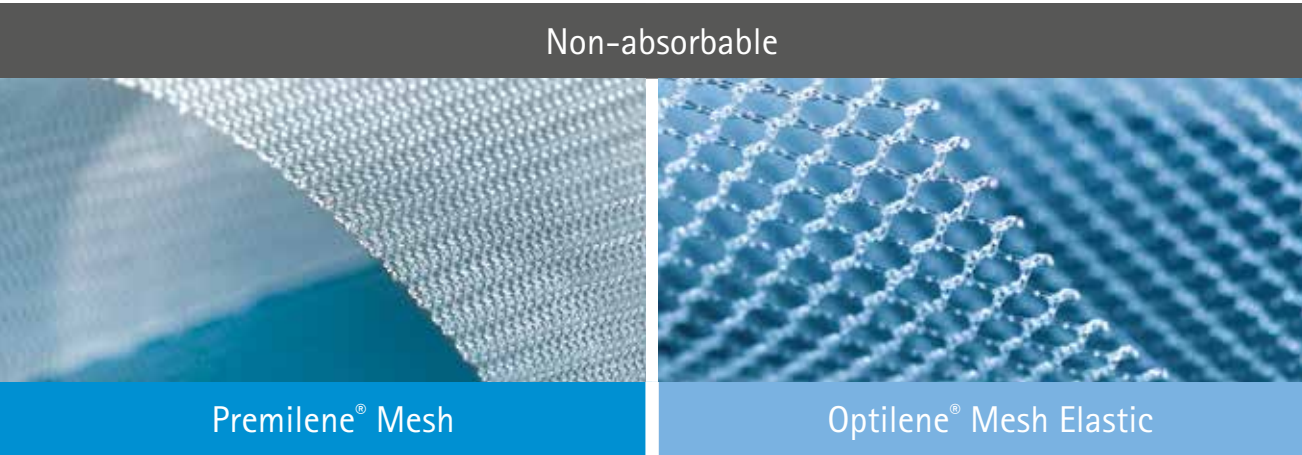
SURGICAL MESH

The innovative mesh range from B.Braun has been developed to meet the latest needs of general surgery. Our product range includes absorbable and non-absorbable elastic light-weight and large pore mesh for open and laparoscopic repair techniques.



- Wound support
- Abdominal
 - Thoracic

- Organ support
- Spleen
 - Kidney



- Hernioplastics
- Reconstructive surgery

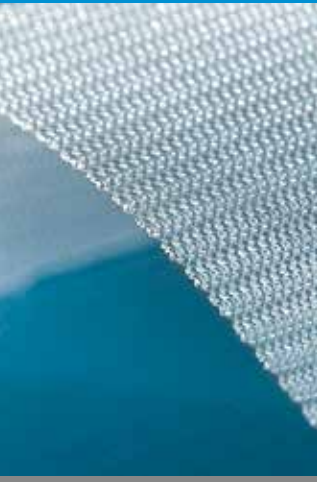
- Hernioplastics
- Reconstructive surgery
- Scar hernias

Safil® Mesh		18 days	
Structure		Polyfilament Mesh uncoated	
Chemical composition		Polyglycolic acid 100%	
Colour		undyed	
Weight		Safil® Mesh: 56 g/m²	Safil® Mesh bag: 43 g/m²
Pore size		Safil® Mesh: 0.75 mm	Safil® Mesh bag: 1.40 mm
Tensile strength retention		~ 14 days p.i. 70 % ~ 18 days p.i. 50 % ~ 30 days p.i. 0 %	
Mass absorption		~ 60 – 90 days	
Indications		Safil® Mesh: Time-restricted wound care ■ Abdominal ■ Thoracic	Safil® Mesh bag: Organ stabilisation and haemostasis ■ Spleen ■ Kidney
Recommended fixation		5 mm from the mesh edge with absorbable suture material	
	Size	Quantity	Art. no.
	18 x 28 cm	1 unit	1065503
	15 x 25 cm	1 unit	1065504
	8 x 12 cm	3 units	1065508
	5 x 6 cm	3 units	1065505
	2 x 8 cm	3 units	1065502
	30 x 30 cm	1 unit	1065500
	15 x 15 cm	1 unit	1065501
	Size	Quantity	Art. no.
	26 x 30 cm	1 unit	1065506
	8 x 15 cm	1 unit	1065507

SURGICAL MESH

Premilene® MeshNon-absorbable

Structure	Monofilament Mesh
Chemical composition	Polypropylene
Colour	undyed
Weight	82 g/m²
Pore size	0.8 mm
Thickness	0.48 mm
Indications	Hernioplastics Reconstructive surgery
Contraindications	in infected regions
Recommended fixation	6.5 - 12.5 mm from the mesh edge with non-absorbable suture material

Premilene® Mesh	Size	Quantity	Art. no.
	3 x 10 cm	5 units	1064305
	5 x 10 cm	5 units	1064315
	7.5 x 15 cm	5 units	1064425
	10 x 15 cm	5 units	1064495
	5 x 30 cm	5 units	1064445
	26 x 36 cm	5 units	1064465
	7.5 x 7.5 cm	5 units	1064415
	15 x 15 cm	5 units	1064435
	30 x 30 cm	5 units	1064455

Optilene® Mesh ElasticNon-absorbable

Structure	Monofilament Mesh
Chemical composition	Polypropylene
Colour	undyed
Weight	48 g/m²
Pore size	3.6 x 2.8 mm
Thickness	0.55 mm
Indications	Hernioplastics Reconstructive surgery Scar hernias
Contraindications	in infected regions
Recommended fixation	6.5 - 12.5 mm from the mesh edge with non-absorbable suture material

Optilene® Mesh Elastic	Size	Quantity	Art. no.
	5 x 10 cm	5 units	1065020
	10 x 15 cm	5 units	1064920
	7.5 x 15 cm	5 units	1064930
	20 x 30 cm	5 units	1064940
	30 x 30 cm	5 units	1064900
	15 x 15 cm	5 units	1064910

SPECIAL PRODUCTS

WOUND CLOSURE

Histoacryl®

Wound closure in one minute

- Anti-bacterial barrier protects the wound
- Storage at room temperature
- Outstanding cosmetic results
- Easy-to-use procedure



Histoacryl® Flexible

Skin closure for incision up to 25 cm

- Polymerized Histoacryl® Flexible adhesive films are an effective microbial barrier ¹
- Outstanding cosmetic results
- Easy-to-use procedure



Product	Size / Content	Packaging unit	Art. no.
Histoacryl®	0.5 ml ampoule	5 units	1050052
Histoacryl® Flexible	0.5 ml ampoule	5 units	1051250P

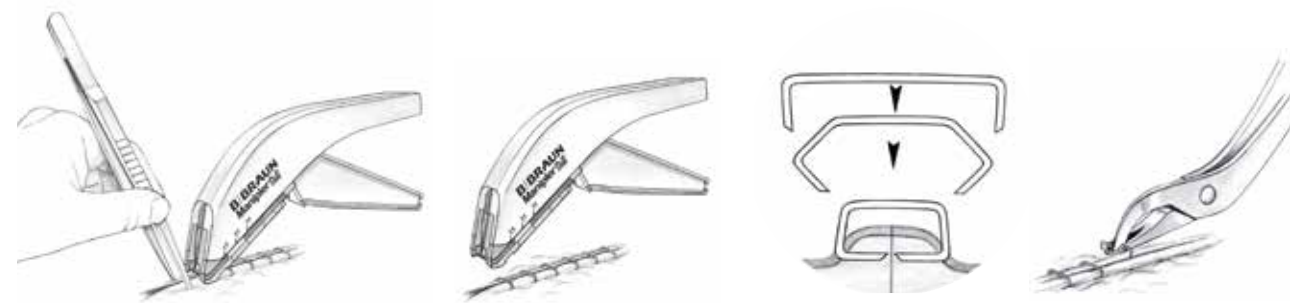
¹ Bhende S, Rothenburger S, Spangler DJ, Dito M. In vitro assessment of microbial barrier properties of Dermabond topical skin adhesive. Surg Infect (Larchmt). 2002 Fall;3(3):251-7.; Data on file.

Manipler® AZ 35 W

The fast alternative to sutures

Single-use skin stapler with 35 wide staples, closing size of the staples: Width 6.9 mm, height 3.6 mm

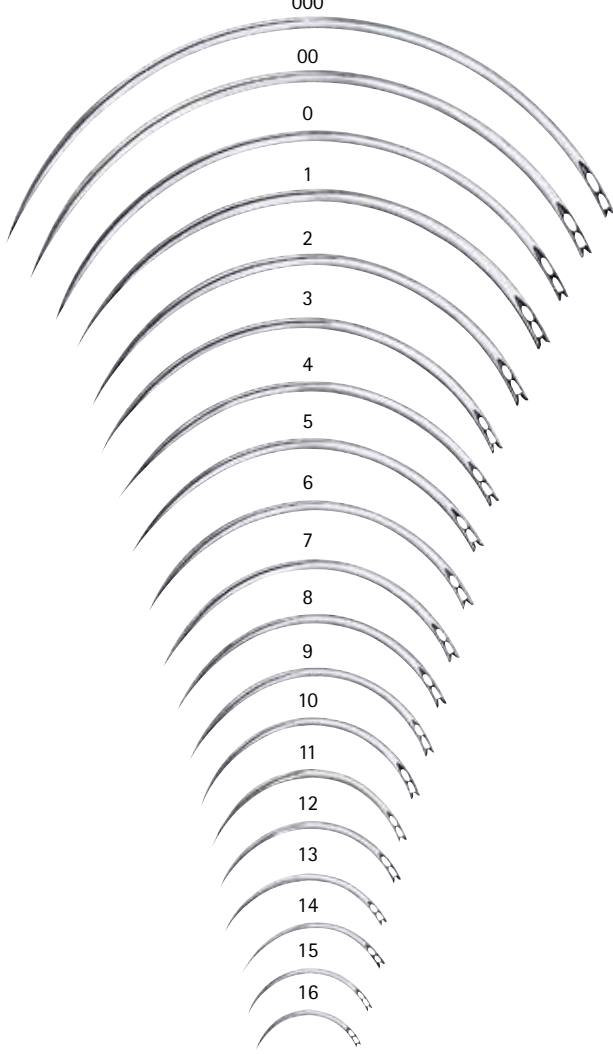
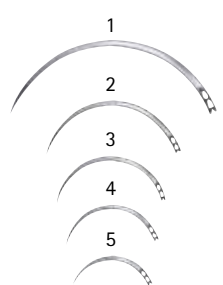
- Well balanced weight and ergonomic design
- Slim grip design
- Special angled head
- Flexible placement angle
- Alignment indicator

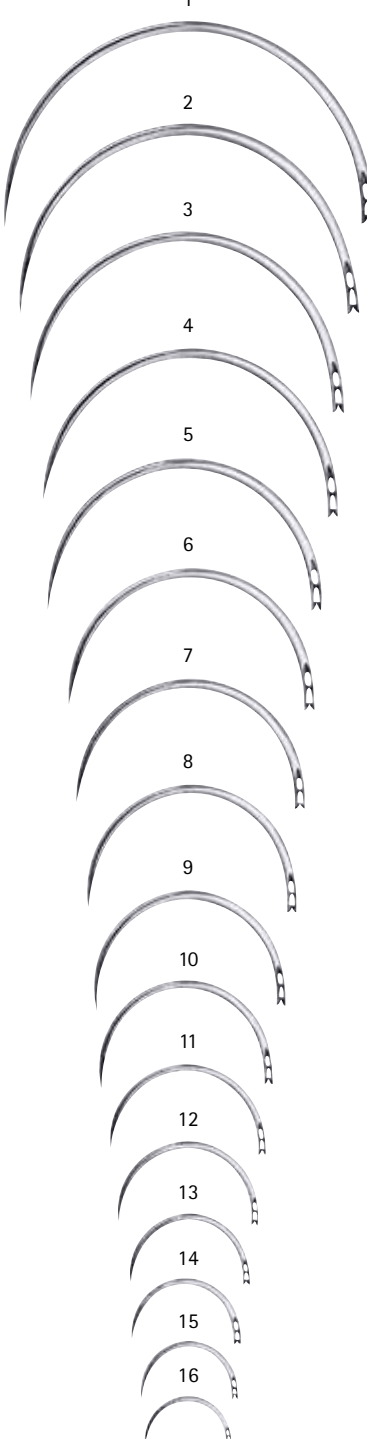


Product	Packaging unit	Art. no.
Manipler® AZ 35 W	6 units	783100
Single-use skin stapler remover	6 units	783101
Reusable skin stapler remover	1 unit	783102

SPECIAL PRODUCTS

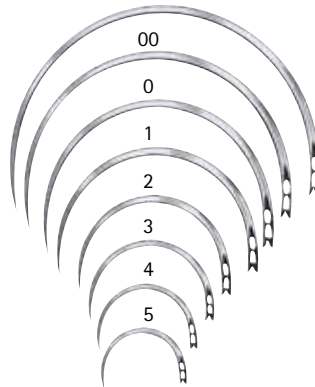
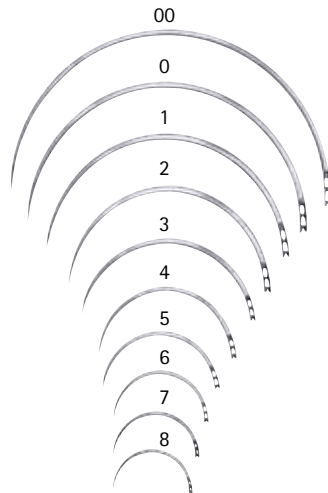
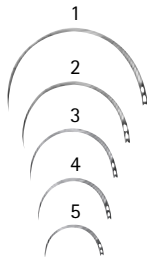
SURGICAL NEEDLES

3/8 circle needles						
Needles	Design	Length mm	Round bodied needles		Cutting needles	
			Needle Code	Art. no.	Needle Code	Art. no.
3/8 circle needles, strong design						
	000	102	DR 102	BL 058 N	DS 102	BL 098 N
	00	94	DR 94	BL 059 N	DS 94	BL 099 N
	0	85	DR 85	BL 060 N	DS 85	BL 100 N
	1	80	DR 80	BL 061 N	DS 80	BL 101 N
	2	73	DR 73	BL 062 N	DS 73	BL 102 N
	3	68	DR 68	BL 063 N	DS 68	BL 103 N
	4	63	DR 63	BL 064 N	DS 63	BL 104 N
	5	58	DR 58	BL 065 N	DS 58	BL 105 N
	6	54	DR 54	BL 066 N	DS 54	BL 106 N
	7	50	DR 50	BL 067 N	DS 50	BL 107 N
	8	46	DR 46	BL 068 N	DS 46	BL 108 N
	9	42	DR 42	BL 069 N	DS 42	BL 109 N
	10	38	DR 38	BL 070 N	DS 38	BL 110 N
	11	34	DR 34	BL 071 N	DS 34	BL 111 N
	12	30	DR 30	BL 072 N	DS 30	BL 112 N
	13	27	DR 27	BL 073 N	DS 27	BL 113 N
	14	23	DR 23	BL 074 N	DS 23	BL 114 N
15	20	DR 20	BL 075 N	DS 20	BL 115 N	
16	18	DR 18	BL 076 N	DS 18	BL 116 N	
3/8 circle needles, eye needles						
	1	30			DS 30	BL 601 N
	2	24			DS 24	BL 602 N
	3	20			DS 20	BL 603 N
	4	15			DS 15	BL 604 N
	5	12			DS 12	BL 605 N

1/2 circle needles						
Needles	Design	Length mm	Round bodied needles		Cutting needles	
			Needle Code	Art. no.	Needle Code	Art. no.
1/2 circle needles, strong design						
	1	80	HR 80	BL 161 N	HS 80	BL 201 N
	2	73	HR 73	BL 162 N	HS 73	BL 202 N
	3	68	HR 68	BL 163 N	HS 68	BL 203 N
	4	63	HR 63	BL 164 N	HS 63	BL 204 N
	5	58	HR 58	BL 165 N	HS 58	BL 205 N
	6	54	HR 54	BL 166 N	HS 54	BL 206 N
	7	50	HR 50	BL 167 N	HS 50	BL 207 N
	8	46	HR 46	BL 168 N	HS 46	BL 208 N
	9	42	HR 42	BL 169 N	HS 42	BL 209 N
	10	38	HR 38	BL 170 N	HS 38	BL 210 N
	11	34	HR 34	BL 171 N	HS 34	BL 211 N
	12	30	HR 30	BL 172 N	HS 30	BL 212 N
	13	27	HR 27	BL 173 N	HS 27	BL 213 N
	14	23	HR 23	BL 174 N	HS 23	BL 214 N
	15	20	HR 20	BL 175 N	HS 20	BL 215 N
	16	18	HR 18	BL 176 N	HS 18	BL 216 N

SPECIAL PRODUCTS

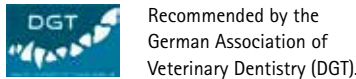
SURGICAL NEEDLES

1/2 circle needles						
Needles	Design	Length mm	Round bodied needles		Cutting needles	
			Needle Code	Art. no.	Needle Code	Art. no.
1/2 circle round bodied needles						
	000	72	HR 72	BL 318 N		
	00	63	HR 63	BL 319 N		
	0	54	HR 54	BL 320 N		
	1	45	HR 45	BL 321 N		
	2	36	HR 36	BL 322 N		
	3	29	HR 29	BL 323 N		
	4	23	HR 23	BL 324 N		
	5	20	HR 20	BL 325 N		
1/2 circle round bodied needles, intestinal needles						
	00	68	HR 68	BL 539 N		
	0	60	HR 60	BL 540 N		
	1	52	HR 52	BL 541 N		
	2	42	HR 42	BL 542 N		
	3	36	HR 36	BL 543 N		
	4	30	HR 30	BL 544 N		
	5	24	HR 24	BL 545 N		
	6	22	HR 22	BL 546 N		
	7	20	HR 20	BL 547 N		
	8	18	HR 18	BL 548 N		
1/2 circle needles, eye needles						
	1	30			HS 30	BL 611 N
	2	24			HS 24	BL 612 N
	3	19			HS 19	BL 613 N
	4	15			HS 15	BL 614 N
	5	12			HS 12	BL 615 N



SPECIAL PRODUCTS

HAEMOSTASIS



Lyostypt®

A wet-stable collagen haemostat. Collagen leads to thrombocyte adhesion and to activation of coagulation factor XII.



- Absorbable within ~ 3 -4 weeks
- Less blood loss and time saving due to fast and efficient hemostasis
- Less material necessary due to the high absorption
- Good affinity to bleeding surfaces
- Can be used as a carrier material for antibiotics or coagulation agents

INDICATIONS

- Capillary bleeding
- Parenchymal bleeding

Dimensions	Packaging unit	Art. no.
3 x 5 cm	12 units	1069128
5 x 8 cm	6 units	1069152
5 x 30 cm	4 units	1069306
10 x 12 cm	4 units	1069209

Gelita®

A haemostat made of pure gelatine, which is fully absorbed. The good haemostatic effect results from the fast adhesion of the blood platelets to the surface of the sponge. Natural blood coagulation takes place within a short period of time.



- Outstanding absorption
- Tissue biocompatibility
- Drug compatibility

INDICATIONS

- Capillary and venous bleeding
- Dental surgery

Dimensions	Packaging unit	Art. no.
1 x 1 x 1 cm	10 units	2070014
1 x 1 x 1 cm	50 units	2070103
1.5 x 1.5 x 1 cm	50 units	2070154
8 x 5 x 1 cm	10 units	2070600

SPECIAL PRODUCTS

ACCESSORIES

Product	Description	Art. no.
Thread storage unit 	The clear and effective way to store your packs of suture material. Each thread storage unit holds 4 packs.	1091255
Wall bracket 	The clear and effective way to hold up to ten thread storage units (can be used as a wall bracket or as a stand).	1091247
Box for 6 cassettes 	The practical way to store cassettes.	F 1090267
Box for 3 cassettes		F 1090232

AESCULAP® – a B. Braun brand

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