

CERTIFICATE

Number: 2194636

The management system of the organization(s) and locations mentioned on the addendum belonging to:

Assut Medical Sàrl

Avenue de Rochettaz 57
1009 Pully
Switzerland

including the implementation meets the requirements of the standard:

EN ISO 13485:2016

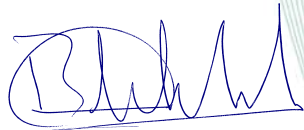
Scope:

Design, manufacturing and distribution of sterile surgical sutures, pacing wires, micro-surgical knives and non-sterile atraumatic needles for the area of surgery

Certificate expiry date: 22 February 2023
Certificate effective date: 22 February 2020
Certified since: 20 September 2016

This certificate is valid for the organization(s) and/or locations mentioned on the addendum.

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



J.A. van Vugt
Certification Manager

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ADDENDUM

To certificate: 2194636

The management system of the organization(s) and/or location(s) of:

Assut Medical Sàrl

Avenue de Rochettaz 57
1009 Pully
Switzerland

Certified additional organization(s) and/or locations:

Organization/Location

Assut Medical Sàrl

Sur le Crêt 13
2606 Corgemont
Switzerland

Scope:

Design and manufacturing of sterile surgical sutures, pacing wires, micro-surgical knives and non-sterile atraumatic needles for the area of surgery

Assut Medical Sàrl

Av. De Lavaux 35 P.O. Box 5
CH-1009 Pully / Lausanne
Switzerland

Scope:

Design and distribution of sterile surgical sutures, pacing wires, micro-surgical knives and non-sterile atraumatic needles for the area of surgery

Addendum expiry date: 22 February 2023

Addendum effective date: 22 February 2020

EC CERTIFICATE

Number: 2194636CE03

Full Quality Assurance System

Directive 93/42/EEC on Medical devices, Annex II excluding (4)

(Devices in Class IIa, IIb or III)

Manufacturer:

Assut Medical Sàrl

Avenue de Rochettaz 57

1009 Pully

Switzerland

For the product category(ies)

Absorbable surgical sutures

DEKRA grants the right to use the EC Notified Body Identification Number illustrated below to accompany the CE Marking of Conformity on the products concerned conforming to the required Technical Documentation and meeting the provisions of the EC-Directive which apply to them:

0344

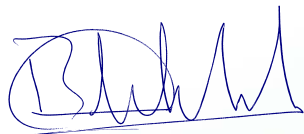
Documents, that form the basis of this certificate:

Certification Notice 2194636CN, initially dated 20 September 2016
Addendum, initially dated 23 September 2016

DEKRA hereby declares that the above mentioned manufacturer fulfils the relevant provisions of 'Besluit Medische Hulpmiddelen', the Dutch transposition of the Council Directive 93/42/EEC of June 14, 1993 concerning Medical devices, including all subsequent amendments. The manufacturer has implemented a quality assurance system for design, manufacture and final inspection for the above mentioned product category in accordance to the provisions of Annex II of Council Directive 93/42/EEC of June 14, 1993 and is subject to periodical surveillance. For placing on the market of Class III devices an additional EC design examination certificate according to Annex II (4) is mandatory. The necessary information related to the quality management system of the manufacturer, including facilities and the reference to the relevant documentation, of the products concerned and the assessments performed, are stated in the Certification Notice which forms an integrative part of this certificate.

This certificate is valid until: 12 December 2022
Issued for the first time: 23 September 2016
Reissued: 12 December 2017

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



J.A. van Vugt
Certification Manager

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DEKRA Certification B.V. is Notified Body with ID no 0344

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem, The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-certification.com Company registration 09085396

ADDENDUM

Belonging to certificate: 2194636CE03

1/1

CE MARKING OF CONFORMITY MEDICAL DEVICES

Absorbable surgical sutures

Issued to:

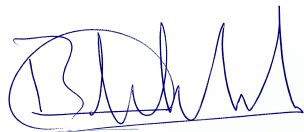
Assut Medical Sàrl
Avenue de Rochettaz 57
1009 Pully
Switzerland

This certificate covers the following product(s):

- AssuCryl® MonoSlow (PDO)
- AssuCryl® Lactin (PGLA)
- AssuCryl® (PGA)
- AssuCryl® Rapid (PGA)
- AssuCryl® MonoRapid (PGCL)

Initial date: 23 September 2016
Revision date: 4 April 2019

DEKRA Certification B.V.

A blue ink signature of B.T.M. Holtus, consisting of stylized, overlapping loops and lines.

B.T.M. Holtus
Managing Director

A blue ink signature of J.A. van Vugt, featuring a large, flowing initial 'J' followed by the name 'A. van Vugt'.

J.A. van Vugt
Certification Manager

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EC CERTIFICATE

Number: 2194636CE01

Full Quality Assurance System

Directive 93/42/EEC on Medical devices, Annex II excluding (4)

(Devices in Class IIa, IIb or III)

Manufacturer:

Assut Medical Sàrl

Avenue de Rochettaz 57

1009 Pully

Switzerland

For the product category(ies)

Non-absorbable surgical sutures

DEKRA grants the right to use the EC Notified Body Identification Number illustrated below to accompany the CE Marking of Conformity on the products concerned conforming to the required Technical Documentation and meeting the provisions of the EC-Directive which apply to them:

0344

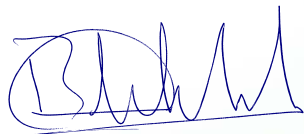
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ADDENDUM

Belonging to certificate: 2194636CE01

1/1

CE MARKING OF CONFORMITY MEDICAL DEVICES

Non-absorbable surgical sutures

Issued to:

Assut Medical Sàrl
Avenue de Rochettaz 57
1009 Pully
Switzerland

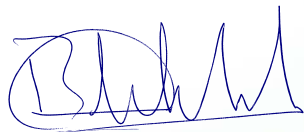
This certificate covers the following product(s):

- Astralen (Polyester) with or without pledgets – Class III
- Nylon (Polyamide) – Class III
- Polypropylene – Class III
- Silk – Class III
- PTFE Pledgets – Class III
- Supramid (Polyamide) – Class IIa
- Surgical Steel – Class IIb
- Astralen/Polyester Tape – Class IIb
- AssuTopFiber® (UHMWPE) – Class IIb, Rule 8

Initial date: 23 September 2016

Revision date: 4 April 2019

DEKRA Certification B.V.

A blue ink signature of B.T.M. Holtus, consisting of stylized, overlapping loops and lines.

B.T.M. Holtus
Managing Director

A blue ink signature of J.A. van Vugt, featuring a large, flowing initial 'J' and 'V' followed by the name in a cursive script.

J.A. van Vugt
Certification Manager

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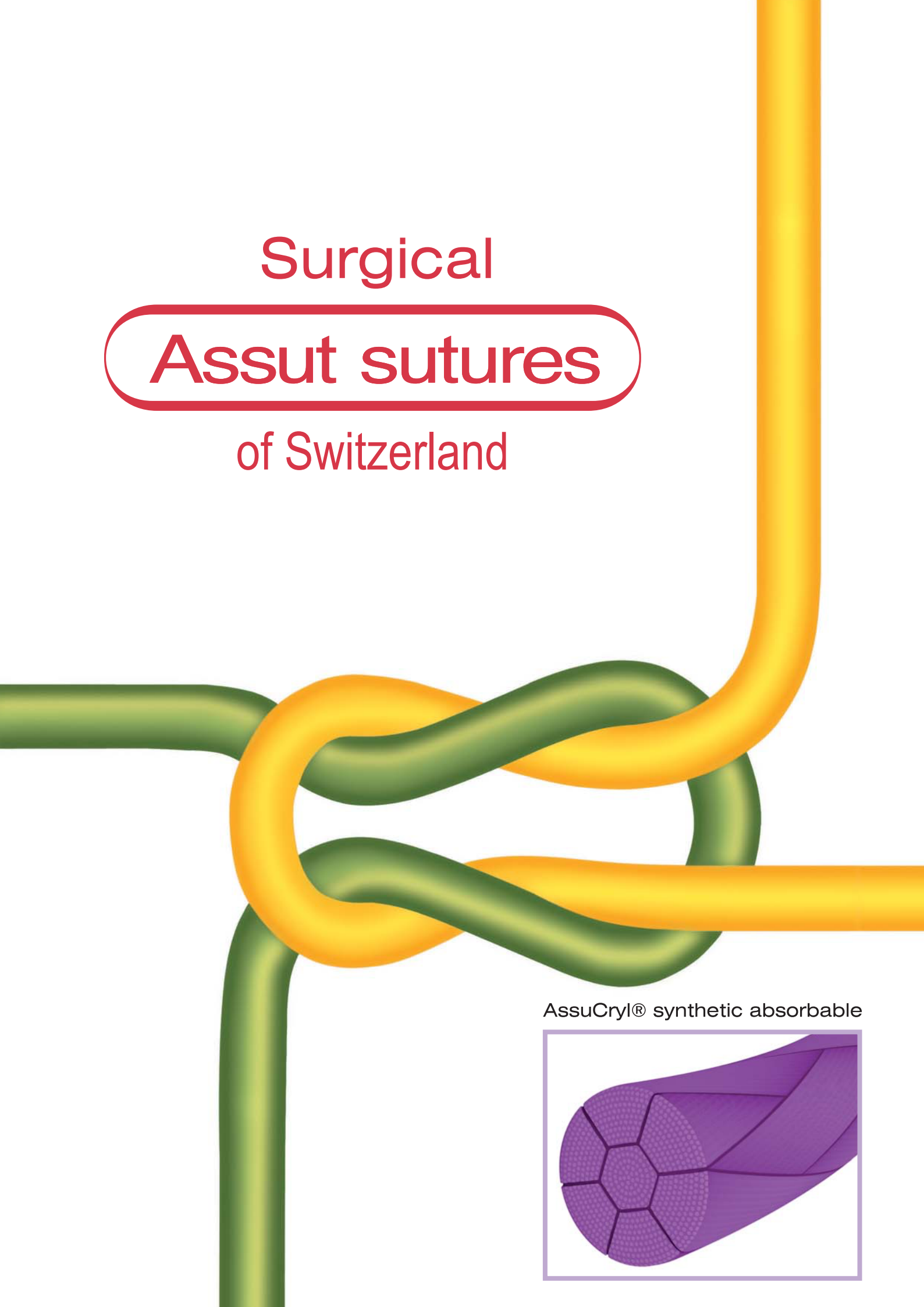
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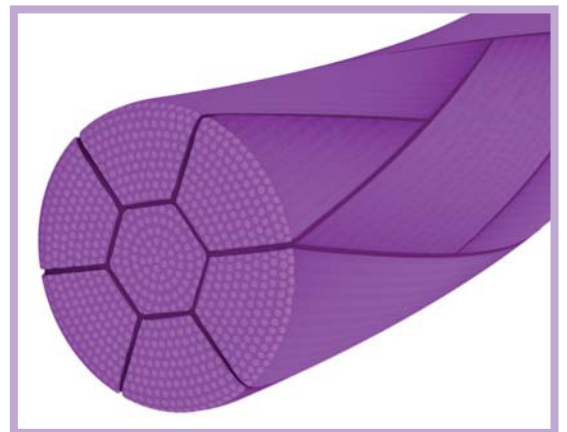
Surgical

Assut sutures

of Switzerland



AssuCryl® synthetic absorbable



Assut sutures

of Switzerland



www.assutsutures.com



Introduction

Assut Medical Sàrl, with factory located since 1962 in the famous Swiss region of the watch-industry and fine metal technology, is specialized in the manufacturing of atraumatic surgical needles and sterile surgical sutures.

Constantly adapting and enlarging its range of products to meet modern surgery requirements, Assut sutures are designed and made for all surgical specialties and renown world-wide. Assut sutures meet the surgeon's requirements in all surgical procedures.

With a long history providing surgical sutures of the highest quality, you can count on a team of dedicated Personnel, Technicians and Specialists.

The way our products are shown and described hereafter will make it easy for you to choose and order your sutures. Our company is EN ISO 9001/EN ISO 13485 certified. Our production and products are in compliance with the requirements according to the European medical device directive 93/42/EEC and all our sutures are CE-marked.

Assut Medical Sàrl

AT THE SERVICE OF SURGERY

Contents

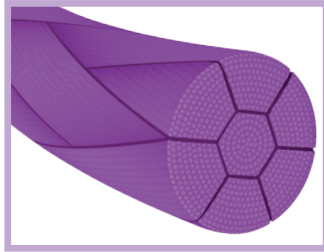
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Assut sutures of Switzerland



Suture Materials and Colour Codes

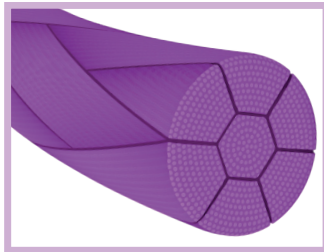
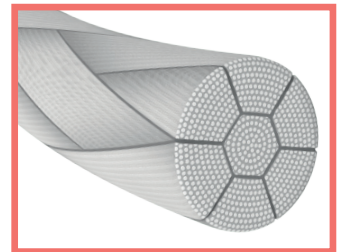
Absorbable



**AssuCryl®
synthetic absorbable**
Braided, coated synthetic absorbable PGA. Predictable absorption time. High initial tensile strength. Easy and secure knotting. Excellent knot sliding and smooth to handle. Violet and undyed (white). Absorption essentially complete between 60 and 90 days.



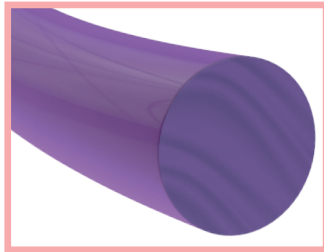
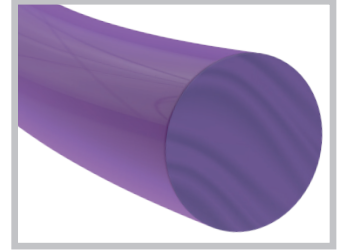
**AssuCryl® Rapid
synthetic absorbable**
Braided, coated synthetic absorbable PGA. Predictable shorter absorption time. High initial tensile strength. Easy and secure knotting with excellent knot sliding, smooth to handle. Undyed (white) only. Absorption essentially complete between 40 to 45 days.



**AssuCryl® Lactin
synthetic absorbable**
Braided, coated synthetic absorbable PGLA. Predictable absorption time. High initial tensile strength. Easy and secure knotting. Excellent knot sliding and smooth to handle. Violet and undyed (white). Absorption essentially complete between 56 and 70 days.



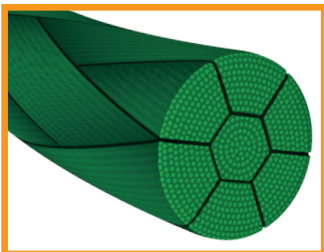
**AssuCryl® MonoSlow
synthetic absorbable**
Monofilament synthetic absorbable PDO (Polydioxanone), violet. High initial tensile strength, easy to handle and smooth passage through tissue. Absorption essentially complete between 180 to 210 days.



**AssuCryl® MonoRapid
synthetic absorbable**
Monofilament synthetic absorbable PGCL (Poliglecaprone). Available in violet or undyed. Easy to handle and smooth passage through tissue. Absorption essentially complete between 90 to 120 days.



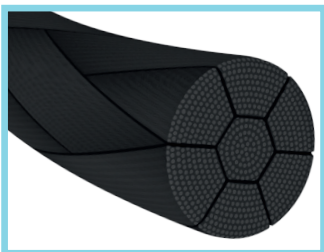
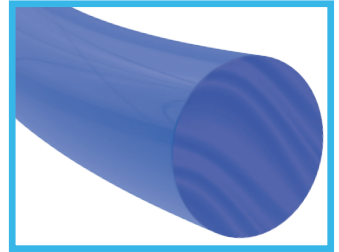
Non - Absorbable



Polyester coated/Astralen
Green braided polyester with improved tensile strength and knot security, siliconized. A modern braiding technique gives the strand a smooth and uniform surface that minimizes the trauma.



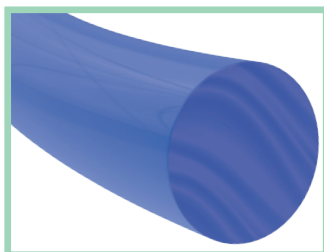
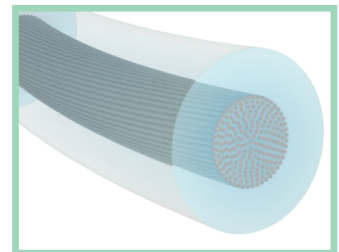
Polypropylene
Blue monofilament polypropylene is flexible and ties securely. Extremely well tolerated, its smooth and uniform surface allows easy passage through tissue with minimum trauma.



Silk
Black braided surgical silk on twisted core for greater tensile strength. Wax treatment and new braiding technique render the silk uniform and smooth and facilitate its handling.



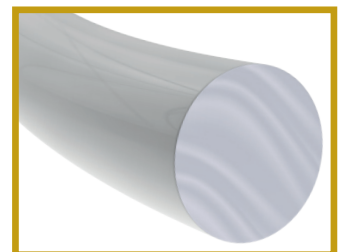
Supramid
Black monofilament polyamide with supersoft core, resulting in superior pliability and knot security. The uniform and smooth surface permits effortless passage through tissue with minimum trauma. Supramid is extremely well tolerated.



Monofil Nylon/Polyamide
Blue monofilament polyamide with high tensile strength. The uniform and smooth surface permits effortless passage through tissue with minimum trauma. Extremely well tolerated.



Surgical Steel
Monofilament stainless steel with very high tensile strength and excellent knot security. This strand causes minimum tissue reaction.



Information on Labelling

Symbol	Meaning
	Do not re-use. Disposable product
	Expiry-date. Use until year/month
	Lot Number
	Sterilized with Ethylene Oxide
	Sterilized with Gamma-Irradiation
	See instructions for use
	CE Mark of the Notified Body
	Product Number
	Maximum Temperature °C
	Do not use if packaging is damaged
	Do not re-sterilize

Information on REF

Each Assut product has a REF (Prod.No.) with either 3, 4 or more digits. The prefix or suffix letter(s), if any, refer to the suture material, such as:

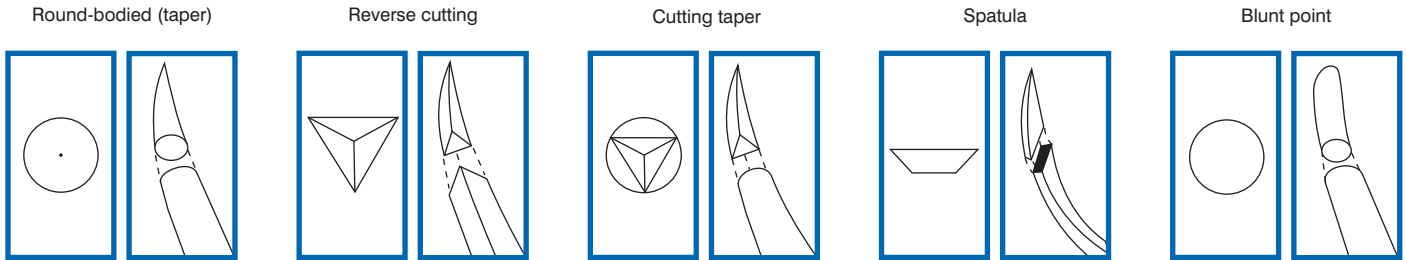
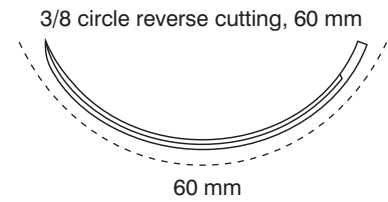
Prefix	Suffix
M Monofilament	TH 30 cm long strand
R Rapid	THF 35 cm long strand
S Slow	TE 38 cm long strand
B Reel	F 45 cm long strand
L Lactin	S 60 cm long strand
	75 cm long strand
	E 80 cm long strand
	N 90 cm long strand
	H 100 cm long strand
	HT 120 cm long strand
	HF 150 cm long strand
	HE 180 cm long strand
	T 200 cm long strand
	TF 240 cm long strand
	W White (or undyed)

Needle shape and cross-section

Logical needle codes

The shape, cross-section and length of needles are given by the needle codes, for example TS 60. The first letter refers to the shape of the needle, the second to the cross-section. The number stands for the needle length along the body (mm).

TS 60



Needle Code	Needle Shape	Cross-section	Symbol
HR	H ½ circle	R Round-Bodied (taper)	
HRG	H ½ circle	R Round-Bodied (taper) G heavy	
HRM	H ½ circle	R Round-Bodied (taper) M Micropoint	
HS	H ½ circle	S Cutting	
HSG	H ½ circle	S Cutting G heavy	
HSP	H ½ circle	SP Spatula	
HSR	H ½ circle	SR Cutting taper	
HSRG	H ½ circle	SR Cutting taper G heavy	
KSP	K 1/4 circle	SP Spatula	
TR	T 3/8 circle	R Round-Bodied (taper)	
TRM	T 3/8 circle	R Round-Bodied (taper) M Micropoint	
TS	T 3/8 circle	S Cutting	
TSP	T 3/8 circle	SP Spatula	
TS-P	T 3/8 circle	S Cutting P Precision Point	
TSR	T 3/8 circle	SR Cutting taper	
RR	R straight	R Round-Bodied (taper)	
RS	R straight	S Cutting	
FR	F 5/8 circle	R Round-Bodied (taper)	
HTT	H ½ circle	TT Blunt-Point	
HMR	HM straight-curved	R Round-Bodied (taper)	
HMS	HM straight-curved	S Cutting	
SKT	SK straight-curved	T Cutting	

Needle-chart

RR-needles 
straight, Round-Bodied (taper)

RR-22



RR-30



RR-45



RR-50



RR-60



TR-needles 
3/8 circle, Round-Bodied (taper)

TR-13



TR-17



TR-22



TR-27



TR-32



TR-38



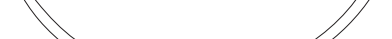
TR-45



TR-55



TR-65



TTT-needle 
3/8 circle, Round-Bodied, Blunt point

TTT-60



TTT-85



HTT-needle 
1/2 circle, Round-Bodied, Blunt point

HTT-50



HRG-needles 
1/2 circle, Round-Bodied (taper) heavy

HRG-22



HRG-27



HRG-32



HRG-38



HRG-40



HRG-50



HRG-65



FR-needles 
5/8 circle, Round-Bodied (taper)

FR-27



FR-38



FR-40



HR-needles 
1/2 circle, Round-Bodied (taper)

HR-13



HR-17



HR-20



HR-22



HR-25



HR-27



HR-30



HR-32



HR-35



HR-38



HR-40



HR-45



HR-50



HR-55



HR-65



HR-70



TS-needles 
3/8 circle, reverse cutting

TS-12



TS-15



TS-17



TS-19



TS-24



TS-27



TS-30



TS-38



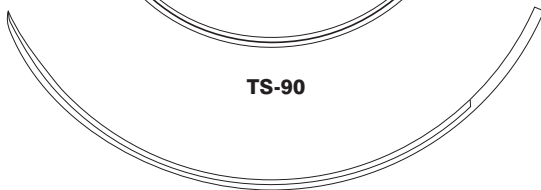
TS-45



TS-60



TS-90



TS-P needles 
3/8 circle, reverse cutting
Precision Point

TS-12P



TS-15P



TS-19P



TS-24P



RS-needles 
straight, cutting

RS-45



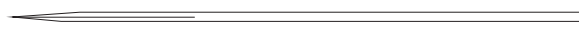
RS-50



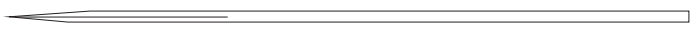
RS-58



RS-75



RS-90



RSK-90

with breakable feature



HS-needles 
1/2 circle, reverse cutting

HS-12



HS-17



HS-19



HS-21



HS-24



HS-27



HS-30



HS-38



HS-40



HS-45



HS-52



TSR-needle 
3/8 circle, cutting taper

TSR-14



TSR-27



HSG-needle 
1/2 circle, cutting, heavy

HSG-24

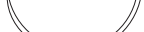


HSR-needles 
1/2 circle, cutting taper

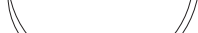
HSR-18



HSR-27




HSR-38



HSR-65



HSRG-needles 
1/2 circle, cutting taper, heavy

HSRG-27



HSRG-38



HSRG-45



HSP-needles
1/2 circle, Spatula

HSP 6



HSP 8



TSP-needles
3/8 circle, Spatula

TSP 6



TSP 8

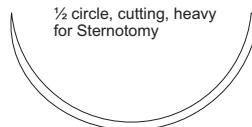


KSP-needles
1/4 circle, Spatula

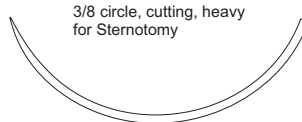
KSP 8















HCS-50 
1/2 circle, cutting, heavy
for Sternotomy












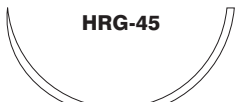


TCS-50 
3/8 circle, cutting, heavy
for Sternotomy














AssuCryl® (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle taper (Round-Bodied) 	Suffix W: White, undyed		
75 cm 75 cm 75 cm	undyed undyed undyed	HR-13 	6 - 0 5 - 0 4 - 0	0.7 1 1.5	4201W 4202W 4203W
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	HR-17 	5 - 0 4 - 0 3 - 0 2 - 0	1 1.5 2 3	4232 4233 4234 4235
75 cm 75 cm	violet violet	HR-20 	4 - 0 3 - 0	1.5 2	42353 42354
75 cm 75 cm 75 cm	violet violet violet	HR-22 	4 - 0 3 - 0 2 - 0	1.5 2 3	4243 4244 4245
75 cm 75 cm 75 cm 90 cm	violet violet violet violet	HR-25 	4 - 0 3 - 0 2 - 0 2 - 0	1.5 2 3 3	42453 42454 42455 42455N
75 cm 75 cm 75 cm 90 cm 75 cm	violet violet violet violet violet	HR-27 	4 - 0 3 - 0 2 - 0 2 - 0 0	1.5 2 3 3 3.5	4253 4254 4255 4255N 4256
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	HR-30 	3 - 0 2 - 0 0 1	2 3 3.5 4	42554 42555 42556 42557
75 cm 75 cm 75 cm 75 cm	violet violet violet violet	HR-35 	3 - 0 2 - 0 0 1	2 3 3.5 4	42654 42655 42656 42657
75 cm 75 cm 75 cm 90 cm 90 cm 75 cm	violet violet violet violet violet violet	HR-38 	3 - 0 2 - 0 0 0 1 2	2 3 3.5 3.5 4 5	4274 4275 4276 4276N 4277N 4278
75 cm 90 cm 75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet violet violet	HR-40 	2 - 0 2 - 0 0 0 1 1 2 2	3 3 3.5 3.5 4 4 5 5	4285 4285N 4286 4286N 4287 4287N 4288 4288N
75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet	HR-45 	0 0 1 1 2 2	3.5 3.5 4 4 5 5	42856 42856N 42857 42857N 42858 42858N















AssuCryl® (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle taper (Round-Bodied) 			
75 cm	violet	 <p>HR-50</p>	2 - 0	3	4295
75 cm	violet		0	3.5	4296
90 cm	violet		0	3.5	4296N
75 cm	violet		1	4	4297
90 cm	violet		1	4	4297N
75 cm	violet		2	5	4298
90 cm	violet		2	5	4298N
75 cm	violet	 <p>HR-65</p>	2 - 0	3	42985
75 cm	violet		0	3.5	42986
75 cm	violet		1	4	42987
		½ circle taper (Round-Bodied), heavy 			
75 cm	violet	 <p>HRG-27</p>	3 - 0	2	4334
75 cm	violet		2 - 0	3	4335
75 cm	violet		0	3.5	4336
75 cm	violet		1	4	4337
75 cm	violet	 <p>HRG-30</p>	2 - 0	3	43325
75 cm	violet		0	3.5	43326
75 cm	violet		1	4	43327
75 cm	violet	 <p>HRG-35</p>	2 - 0	3	43365
75 cm	violet		0	3.5	43366
90 cm	violet		0	3.5	43366N
90 cm	violet		1	4	43367N
75 cm	violet	 <p>HRG-38</p>	2 - 0	3	4345
90 cm	violet		2 - 0	3	4345N
75 cm	violet		0	3.5	4346
90 cm	violet		0	3.5	4346N
75 cm	violet		1	4	4347
90 cm	violet		1	4	4347N
75 cm	violet		2	5	4348
90 cm	violet		2	5	4348N
75 cm	violet	 <p>HRG-40</p>	0	3.5	43416
90 cm	violet		0	3.5	43416N
75 cm	violet		1	4	43417
90 cm	violet		1	4	43417N
75 cm	violet		2	5	43418
90 cm	violet		2	5	43418N
75 cm	violet	 <p>HRG-45</p>	0	3.5	43426
75 cm	violet		1	4	43427
75 cm	violet		2	5	43428
75 cm	violet	 <p>HRG-50</p>	0	3.5	43436
90 cm	violet		0	3.5	43436N
75 cm	violet		1	4	43437
90 cm	violet		1	4	43437N
75 cm	violet		2	5	43438
90 cm	violet		2	5	43438N
90 cm	violet	 <p>HRG-80</p>	1	4	43487N
100 cm	violet		1	4	43487H













AssuCryl® (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle reverse cutting 			
45 cm 75 cm 45 cm 45 cm 45 cm 45 cm	violet violet violet undyed violet violet	HS-17 	5 - 0 4 - 0 4 - 0 4 - 0 3 - 0 2 - 0	1 1.5 1.5 1.5 2 3	4672F 4673 4673F 4673WF 4674F 4675F
45 cm 45 cm	violet violet	HS-21 	4 - 0 3 - 0	1.5 2	46843F 46844F
75 cm 75 cm	violet violet	HS-24 	3 - 0 2 - 0	2 3	4694 4695
75 cm 75 cm 75 cm	violet violet violet	HS-27 	3 - 0 2 - 0 0	2 3 3.5	4704 4705 4706
75 cm 75 cm 75 cm	violet violet violet	HS-30 	2 - 0 0 1	3 3.5 4	4715 4716 4717
75 cm 75 cm 75 cm	violet violet violet	HS-35 	2 - 0 0 1	3 3.5 4	47015 47016 47017
75 cm 75 cm 75 cm	violet violet violet	HS-40 	0 1 2	3.5 4 5	4736 4737 4738
75 cm 75 cm 75 cm	violet violet violet	HS-45 	0 1 2	3.5 4 5	47326 47327 47328
90 cm 90 cm	violet violet	HS-48 	1 2	4 5	47347N 47348N
75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	violet violet violet violet violet violet	HS-52 	0 0 1 1 2 2	3.5 3.5 4 4 5 5	4746 4746N 4747 4747N 4748 4748N




















AssuCryl® (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle cutting taper 			
75 cm	violet	HSR-18 	5 - 0	1	4362
75 cm	violet		4 - 0	1.5	4363
75 cm	violet		3 - 0	2	4364
75 cm	violet		2 - 0	3	4365
75 cm	violet	HSR-22 	3 - 0	2	43624
75 cm	violet		2 - 0	3	43625
75 cm	violet	HSR-25 	4 - 0	1.5	43663
75 cm	violet		3 - 0	2	43664
75 cm	violet		2 - 0	3	43665
75 cm	violet	HSR-27 	3 - 0	2	4374
75 cm	violet		2 - 0	3	4375
75 cm	violet		0	3.5	4376
75 cm	violet		1	4	4377
75 cm	violet	HSR-30 	3 - 0	2	43784
75 cm	violet		2 - 0	3	43785
75 cm	violet		0	3.5	43786
75 cm	violet	HSR-35 	0	3.5	43796
75 cm	violet		1	4	43797
75 cm	violet		2	5	43798
75 cm	violet	HSR-38 	2 - 0	3	4385
90 cm	violet		2 - 0	3	4385N
75 cm	violet		0	3.5	4386
90 cm	violet		0	3.5	4386N
		½ circle cutting taper , heavy 			
75 cm	violet	HSRG-27 	2 - 0	3	43755
75 cm	violet		0	3.5	43756
75 cm	violet		1	4	43757
75 cm	violet	HSRG-35 	1	4	43807
90 cm	violet		1	4	43807N
75 cm	violet		2	5	43808
75 cm	violet	HSRG-38 	0	3.5	43856
90 cm	violet		0	3.5	43856N
75 cm	violet		1	4	43857
90 cm	violet		1	4	43857N
75 cm	violet		2	5	43858
90 cm	violet	2	5	43858N	
75 cm	violet	HSRG-40 	1	4	43867
75 cm	violet		2	5	43868
75 cm	undyed		1	4	43867W
75 cm	undyed		2	5	43868W
75 cm	violet	HSRG-45 	2 - 0	3	43955
75 cm	violet		0	3.5	43956
75 cm	violet		1	4	43957
75 cm	violet		2	5	43958

AssuCryl® (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle taper (Round-Bodied) 			
45 cm 45 cm 75 cm	violet violet violet	TR-13 	5 - 0 4 - 0 4 - 0	1 1.5 1.5	4422F 4423F 4423
75 cm 75 cm 75 cm	violet violet violet	TR-17 	5 - 0 4 - 0 3 - 0	1 1.5 2	4432 4433 4434
75 cm	violet	TR-30 	2 - 0	3	44555
75 cm	violet	TR-50 	1	4	44757
		3/8 circle, blunt point 			
75 cm 100 cm	violet violet	TTT-65 	1 1	4 4	46427 46427H
75 cm 100 cm 75 cm	violet violet violet	TTT-85 	1 1 2	4 4 5	46467 46467H 46468
		5/8 circle taper (Round-Bodied) 			
75 cm	violet	FR-27 	2 - 0	3	4905
75 cm	violet	FR-38 	2 - 0	3	4925
75 cm	violet	FR-40 	0	3.5	4936







AssuCryl® (PGA) braided, coated, synthetic absorbable

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle, reverse cutting 	Suffix W: White, undyed		
45 cm	undyed	TS-12 	6 - 0	0.7	4521WF
45 cm	undyed		5 - 0	1	4522WF
45 cm	undyed		4 - 0	1.5	4523WF
75 cm	violet	TS-15 	6 - 0	0.7	4531
75 cm	violet		5 - 0	1	4532
75 cm	violet		4 - 0	1.5	4533
45 cm	undyed		6 - 0	0.7	4531WF
45 cm	undyed		5 - 0	1	4532WF
45 cm	undyed		4 - 0	1.5	4533WF
45 cm	undyed	TS-17 	5 - 0	1	4542WF
75 cm	undyed		5 - 0	1	4542W
45 cm	undyed		4 - 0	1.5	4543WF
75 cm	undyed		4 - 0	1.5	4543W
45 cm	undyed		3 - 0	2	4544WF
75 cm	undyed		3 - 0	2	4544W
45 cm	undyed	TS-19 	4 - 0	1.5	4553WF
45 cm	undyed		3 - 0	2	4554WF
75 cm	violet		4 - 0	1.5	4553
75 cm	violet		3 - 0	2	4554
75 cm	undyed	TS-24 	4 - 0	1.5	4563W
75 cm	undyed		3 - 0	2	4564W
75 cm	undyed		2 - 0	3	4565W
75 cm	violet		4 - 0	1.5	4563
75 cm	violet		3 - 0	2	4564
75 cm	violet		2 - 0	3	4565
75 cm	undyed	TS-27 	4 - 0	1.5	4573W
75 cm	undyed		3 - 0	2	4574W
75 cm	undyed		2 - 0	3	4575W
75 cm	violet		3 - 0	2	4574
75 cm	violet		2 - 0	3	4575
75 cm	undyed	TS-30 	3 - 0	2	4584W
75 cm	undyed		2 - 0	3	4585W
75 cm	violet		3 - 0	2	4584
75 cm	violet		2 - 0	3	4585
75 cm	violet	TS-38 	3 - 0	2	4594
75 cm	violet		2 - 0	3	4595
75 cm	violet		0	3.5	4596
75 cm	violet		1	4	4597
75 cm	violet		2	5	4598
75 cm	violet	TS-45 	2 - 0	3	4605
75 cm	violet		0	3.5	4606
75 cm	violet		1	4	4607
75 cm	violet		2	5	4608
		3/8 circle, reverse cutting, precision point 			
45 cm	undyed	TS-12P 	6 - 0	0.7	45201WF
45 cm	undyed		5 - 0	1	45202WF
45 cm	undyed	TS-15P 	5 - 0	1	45302WF
45 cm	undyed		4 - 0	1.5	45303WF
45 cm	undyed		3 - 0	2	45304WF
45 cm	undyed	TS-19P 	5 - 0	1	45502WF
45 cm	undyed		4 - 0	1.5	45503WF
45 cm	undyed		3 - 0	2	45504WF
45 cm	undyed	TS-24P 	4 - 0	1.5	45603WF
45 cm	undyed		3 - 0	2	45604WF
45 cm	undyed		2 - 0	3	45605WF
45 cm	undyed	TS-27P 	4 - 0	1.5	45703WF
45 cm	undyed		3 - 0	2	45704WF
45 cm	undyed		2 - 0	3	45705WF
		straight cutting 			
45 cm	undyed	RS-45 	4 - 0	1.5	4823WF
75 cm	undyed	RS-58 	3 - 0	2	4844W
75 cm	undyed		2 - 0	3	4845W
75 cm	violet		3 - 0	2	4844
75 cm	violet		2 - 0	3	4845















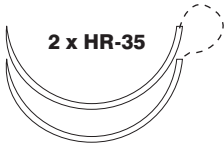
AssuCryl® (PGA) braided, coated, synthetic absorbable

Number of Strands x Length	Thread Colour	USP	EP	REF
Pre-cut sutures without needle				
1 x 140 cm	violet	5 - 0	1	40052
1 x 140 cm	violet	4 - 0	1.5	40053
1 x 140 cm	violet	3 - 0	2	40054
1 x 140 cm	violet	2 - 0	3	40055
1 x 140 cm	violet	0	3.5	40056
1 x 140 cm	violet	1	4	40057
1 x 140 cm	violet	2	5	40058
1 x 150 cm	violet	5 - 0	1	40032
1 x 150 cm	violet	4 - 0	1.5	40033
1 x 150 cm	violet	3 - 0	2	40034
1 x 150 cm	violet	2 - 0	3	40035
1 x 150 cm	violet	0	3.5	40036
1 x 150 cm	violet	1	4	40037
1 x 150 cm	violet	2	5	40038
6 x 45 cm	violet	4 - 0	1.5	40093
6 x 45 cm	violet	3 - 0	2	40094
6 x 45 cm	violet	2 - 0	3	40095
6 x 45 cm	violet	0	3.5	40096
6 x 45 cm	violet	1	4	40097
12 x 45 cm	violet	4 - 0	1.5	40523
12 x 45 cm	violet	3 - 0	2	40524
12 x 45 cm	violet	2 - 0	3	40525
12 x 45 cm	violet	0	3.5	40526
12 x 45 cm	violet	1	4	40527
Pre-cut sutures without needle on reel				
1 x 150 cm	violet	5 - 0	1	B40032
1 x 150 cm	violet	4 - 0	1.5	B40033
1 x 150 cm	violet	3 - 0	2	B40034
1 x 150 cm	violet	2 - 0	3	B40035
1 x 150 cm	violet	0	3.5	B40036
1 x 150 cm	violet	1	4	B40037
1 x 150 cm	violet	2	5	B40038
1 x 250 cm	violet	5 - 0	1	B4092
1 x 250 cm	violet	4 - 0	1.5	B4093
1 x 250 cm	violet	3 - 0	2	B4094
1 x 250 cm	violet	2 - 0	3	B4095
1 x 250 cm	violet	0	3.5	B4096
1 x 250 cm	violet	1	4	B4097
1 x 250 cm	violet	2	5	B4098












Ophthalmic sutures

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF	
30 cm 45 cm	violet violet	 <p>2 x TSP 6</p>  <p>Curved, 6,2 mm long, spatula, 150 microns, double-armed</p>	8 - 0 8 - 0	0.4 0.4	484568 484588	
30 cm 45 cm 45 cm 30 cm	violet violet violet violet	 <p>2 x TSP 7</p>  <p>Curved, 6,4 mm long, spatula, 200 microns, double-armed</p>	8 - 0 8 - 0 7 - 0 7 - 0	0.4 0.4 0.5 0.5	486668 486688 486687 486667	
45 cm 45 cm 45 cm 45 cm 45 cm	violet violet violet violet violet	 <p>2 x KSP 8</p>  <p>1/4 circle, 8mm long, spatula, double-armed</p>	200 Mi 230 Mi 300 Mi 350 Mi 350 Mi	7 - 0 7 - 0 6 - 0 6 - 0 5 - 0	0.5 0.5 0.7 0.7 1	432687 432787 432986 432086 432085



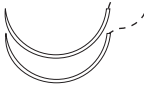









Astralen / Polyester braided, coated

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle taper (Round-Bodied) 			
75 cm 75 cm 75 cm	green green green	HR-13 	5 - 0 4 - 0 3 - 0	1 1.5 2	3202 3203 3204
75 cm 75 cm 75 cm 75 cm	green green green green	HR-17 	5 - 0 4 - 0 3 - 0 2 - 0	1 1.5 2 3	3232 101 102 3235
75 cm 75 cm 75 cm	green green green	HR-22 	4 - 0 3 - 0 2 - 0	1.5 2 3	3243 3244 3245
75 cm 75 cm 75 cm 75 cm	green green green green	HR-27 	4 - 0 3 - 0 2 - 0 0	1.5 2 3 3.5	103 104 105 3256
75 cm 75 cm 75 cm 75 cm	green green green green	HR-32 	3 - 0 2 - 0 0 1	2 3 3.5 4	3264 3265 3266 3267
75 cm 75 cm 75 cm 75 cm 75 cm	green green green green green	HR-38 	3 - 0 2 - 0 0 1 2	2 3 3.5 4 5	3274 106 107 3277 108
75 cm 75 cm 75 cm	green green green	HR-40 	2 - 0 0 1	3 3.5 4	3285 3286 3287
		½ circle taper, heavy 			
75 cm 75 cm 75 cm 75 cm	green green green green	HRG-27 	2 - 0 0 1 2	3 3.5 4 5	3335 3336 3337 3338
75 cm 75 cm	green green	HRG-38 	2 - 0 0	3 3.5	3345 3346
		½ circle taper, double-armed 			
75 cm 90 cm 75 cm 90 cm 75 cm 90 cm	green green green green green green	2 x HR-17 	4 - 0 4 - 0 3 - 0 3 - 0 2 - 0 2 - 0	1.5 1.5 2 2 3 3	901 901N 902 902N 3875 3875N
75 cm	green & white	Multipack 4 sutures per envelope - 2 green & 2 white braided sutures	4 - 0	1.5	CV 901x4
75 cm 90 cm 75 cm 90 cm	green green green green	2 x HR-25 	3 - 0 3 - 0 2 - 0 2 - 0	2 2 3 3	38854 38854N 38855 38855N
90 cm	green	2 x HR-35 	2 - 0	3	38975N










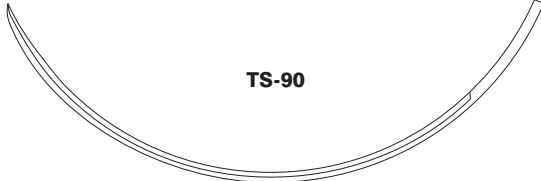



Astralen / Polyester braided, coated

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle, reverse cutting 			
75 cm	green	HS-17 	6 - 0	0.7	3671
75 cm	green		5 - 0	1	3672
75 cm	green		4 - 0	1.5	3673
75 cm	green		3 - 0	2	3674
75 cm	green	HS-19 	4 - 0	1.5	3683
75 cm	green		3 - 0	2	3684
75 cm	green		2 - 0	3	3685
75 cm	green	HS-24 	4 - 0	1.5	3693
75 cm	green		3 - 0	2	3694
75 cm	green		2 - 0	3	3695
75 cm	green		0	3.5	3696
75 cm	green	HS-27 	2 - 0	3	160
75 cm	green	HS-30 	2 - 0	3	3715
75 cm	green		0	3.5	3716
75 cm	green		1	4	3717
75 cm	green	HS-38 	2 - 0	3	3725
75 cm	green		0	3.5	3726
75 cm	green		1	4	3727
75 cm	green		2	5	3728
		½ circle, cutting taper 			
75 cm	green	HSR-18 	5 - 0	1	3362
75 cm	green		4 - 0	1.5	3363
75 cm	green		3 - 0	2	3364
75 cm	green		2 - 0	3	3365
75 cm	green	HSR-27 	3 - 0	2	3374
75 cm	green		2 - 0	3	3375
75 cm	green	HSR-38 	0	3.5	3386
75 cm	green		1	4	3387

Astralen / Polyester braided, coated





Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle, cutting taper, double-armed 			
90 cm	green	2 x HSR-18 	5 - 0	1	3942N
90 cm	green		4 - 0	1.5	3943N
90 cm	green		3 - 0	2	3944N
90 cm	green		2 - 0	3	3945N
90 cm	green & white		Multipack 4 sutures per envelope - 2 green & 2 white braided sutures	2 - 0	3
75 cm	green	2 x HSR-25 	2 - 0	3	39485
90 cm	green		2 - 0	3	39485N
		3/8 circle taper (Round-Bodied) 			
75 cm	green	TR-17 	5 - 0	1	123
75 cm	green		4 - 0	1.5	124
75 cm	green		3 - 0	2	125
75 cm	green		2 - 0	3	3435
75 cm	green	TR-22 	5 - 0	1	3442
75 cm	green		4 - 0	1.5	3443
75 cm	green		3 - 0	2	3444
75 cm	green		2 - 0	3	3445
75 cm	green		0	3.5	3446
75 cm	green	TR-27 	2 - 0	3	3455
75 cm	green		0	3.5	3456
75 cm	green		1	4	3457
75 cm	green		2	5	3458
75 cm	green	TR-32 	2 - 0	3	3465
75 cm	green		0	3.5	3466
75 cm	green		1	4	3467
75 cm	green		2	5	3468
75 cm	green		3	6	3469
75 cm	green	TR-38 	2 - 0	3	3475
75 cm	green		0	3.5	3476
75 cm	green		1	4	3477
75 cm	green		2	5	3478
75 cm	green		3	6	3479
		3/8 circle taper (Round-Bodied), double-armed 			
75 cm	green	2 x TR-13 	6 - 0	0.7	906
75 cm	green		5 - 0	1	907
75 cm	green		4 - 0	1.5	3993
75 cm	green	2 x TR-22 	5 - 0	1	31252
75 cm	green		4 - 0	1.5	31253

Astralen / Polyester braided, coated

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle, reverse cutting 			
45 cm 45 cm 45 cm 75 cm	green green green green	TS-12 	6 - 0 5 - 0 4 - 0 4 - 0	0.7 1 1.5 1.5	132F 133F 134F 134
45 cm 75 cm 75 cm	green green green	TS-17 	5 - 0 5 - 0 4 - 0	1 1 1.5	135F 135 136
75 cm 75 cm 75 cm 75 cm 75 cm 75 cm	green green green green green green	TS-19 	6 - 0 5 - 0 4 - 0 3 - 0 2 - 0 0	0.7 1 1.5 2 3 3.5	3551 137 138 139 3555 3556
75 cm 75 cm 75 cm 75 cm	green green green green	TS-24 	4 - 0 3 - 0 2 - 0 0	1.5 2 3 3.5	140 141 142 3566
75 cm 75 cm 75 cm 75 cm	green green green green	TS-27 	4 - 0 3 - 0 2 - 0 0	1.5 2 3 3.5	143 144 145 3576
75 cm 75 cm 75 cm 75 cm	green green green green	TS-30 	3 - 0 2 - 0 0 1	2 3 3.5 4	146 147 3586 3587
75 cm 75 cm 75 cm 75 cm 75 cm 75 cm	green green green green green green	TS-38 	3 - 0 2 - 0 0 1 2 3	2 3 3.5 4 5 6	148 149 3596 3597 3598 3599
75 cm 75 cm 75 cm 75 cm	green green green green	TS-45 	0 1 2 3	3.5 4 5 6	3606 3607 3608 3609
100 cm	green	TS-90 	1	4	36257H
		straight cutting 			
75 cm 75 cm 75 cm 75 cm 75 cm	green green green green green	RS-50 	3 - 0 2 - 0 0 1 2	2 3 3.5 4 5	3834 3835 3836 3837 3838
75 cm	green	RS-58 	2 - 0	3	3845


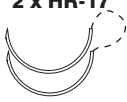
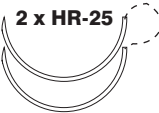


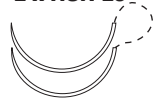
Astralen / Polyester braided, coated

Ophthalmic sutures











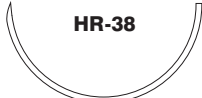
Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
45 cm 45 cm	green white	 2 x HSP 8  1/2 Circle, 8 mm long, spatula, 350 Microns, double-armed	5 - 0 5 - 0	1 1	322085 322085W
45 cm 45 cm	green white	 2 x KSP 8  1/4 Circle, 8 mm long, spatula, 350 Microns, double-armed	5 - 0 5 - 0	1 1	332085 332085W

Astralen
















Polyester braided white and green, coated, for valve replacement

1/2 circle taper (Round-Bodied), double-armed 					
Needle Code	Thread Colour	USP	EP	Length	REF
 2 x HR-17	green & white	2 - 0 5 green & 5 white braided sutures with 3x7x1.5mm oval firm pledget	3	75 cm	CV 3875-37x10
	green & white	2 - 0 5 green & 5 white braided sutures with 3x5x1.5mm oval firm pledget	3	75 cm	CV 3875-35x10
	green & white	2 - 0 5 green & 5 white braided sutures with 3x3x1.5mm oval firm pledget	3	75 cm	CV 3875-33x10
	green & white	2 - 0 5 green & 5 white braided sutures	3	75 cm	CV 3875x10
 2 x HR-25	green & white	2 - 0 5 green & 5 white braided sutures with 3x7x1.5mm oval firm pledget	3	75 cm	CV 38855-37x10
	green & white	2 - 0 5 green & 5 white braided sutures	3	75 cm	CV 38855x10
	green & white	2 - 0 5 green & 5 white braided sutures	3	90 cm	CV 38855Nx10
1/2 circle, cutting taper, double-armed 					
Needle Code	Thread Colour	USP	EP	Length	REF
 2 x HSR-18	green & white	2 - 0 5 green & 5 white braided sutures with 3x7x1.5mm oval firm pledget	3	75 cm	CV 3945-37x10
	green & white	2 - 0 5 green & 5 white braided sutures with 3x3x1.5mm oval firm pledget	3	75 cm	CV 3945-33x10
	green & white	2 - 0 3 green & 3 white braided sutures with 2x4x1.5mm rectangular firm pledget	3	75 cm	CV 3945-24x6
	green & white	2 - 0 5 green & 5 white braided sutures	3	75 cm	CV 3945x10
 2 x HSR-25	green & white	2 - 0 5 green & 5 white braided sutures with 3x7x1.5mm oval firm pledget	3	75 cm	CV 39485-37x10
	green & white	2 - 0 5 green & 5 white braided sutures	3	75 cm	CV 39485x10













Silk black braided

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		1/2 circle taper (Round-Bodied) 			
75 cm 75 cm	black black	HR-13 	5 - 0 4 - 0	1 1.5	601 602
75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black	HR-17 	6 - 0 5 - 0 4 - 0 3 - 0 2 - 0	0.7 1 1.5 2 3	6231 603 604 605 6235
75 cm 75 cm 75 cm	black black black	HR-20 	4 - 0 3 - 0 2 - 0	1.5 2 3	62353 62354 62355
75 cm 75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black black	HR-22 	6 - 0 5 - 0 4 - 0 3 - 0 2 - 0 0	0.7 1 1.5 2 3 3.5	6241 6242 606 607 6245 6246
75 cm 75 cm 75 cm	black black black	HR-25 	4 - 0 3 - 0 2 - 0	1.5 2 3	62453 62454 62455
75 cm 75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black black	HR-27 	4 - 0 3 - 0 2 - 0 0 1 2	1.5 2 3 3.5 4 5	608 609 610 6256 6257 6258
75 cm 75 cm 75 cm 75 cm	black black black black	HR-30 	3 - 0 2 - 0 0 1	2 3 3.5 4	62554 62555 62556 62557
75 cm 75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black black	HR-32 	3 - 0 2 - 0 0 1 2 3	2 3 3.5 4 5 6	6264 6265 6266 6267 6268 6269
75 cm 75 cm 75 cm	black black black	HR-35 	2 - 0 0 1	3 3.5 4	62655 62656 62657
75 cm 75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black black	HR-38 	3 - 0 2 - 0 0 1 2 3	2 3 3.5 4 5 6	611 612 613 6277 6278 6279

Silk black braided

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		1/2 circle taper (Round-Bodied) 			
75 cm	black	 HR-40	2 - 0	3	6285
75 cm	black		0	3	6286
75 cm	black		1	3	6287
75 cm	black		2	3	6288
75 cm	black	 HR-50	2 - 0	3	6295
75 cm	black		0	3.5	6296
75 cm	black		1	4	6297
75 cm	black		2	5	6298
100 cm	black	 HR-55	2 - 0	3	62955H
100 cm	black		0	3.5	62956H
75 cm	black	 HR-65	1	4	62987
75 cm	black		2	5	62988
75 cm	black		3	6	62989
		1/2 circle taper (Round-Bodied), heavy 			
75 cm	black	 HRG-32	1	4	63357
75 cm	black	 HRG-38	2 - 0	3	6345
75 cm	black		0	3.5	6346
75 cm	black		1	4	6347
75 cm	black		2	5	6348
		1/2 circle, reverse cutting 			
45 cm	black	 HS-12	5 - 0	1	6652F
45 cm	black		4 - 0	1.5	6653F
75 cm	black	 HS-17	5 - 0	1	6672
75 cm	black		4 - 0	1.5	6673
75 cm	black		3 - 0	2	6674
75 cm	black		2 - 0	3	6675
75 cm	black	 HS-19	5 - 0	1	6682
75 cm	black		4 - 0	1.5	6683
75 cm	black		3 - 0	2	6684
75 cm	black		2 - 0	3	6685
75 cm	black	 HS-21	4 - 0	1.5	66843
75 cm	black		3 - 0	2	66844
45 cm	black		3 - 0	2	66844F
75 cm	black		2 - 0	3	66845
75 cm	black	 HS-22	3 - 0	2	66864
45 cm	black		3 - 0	2	66864F
75 cm	black	 HS-23	3 - 0	2	66904







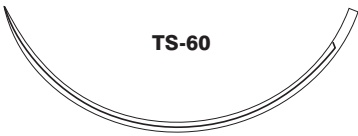
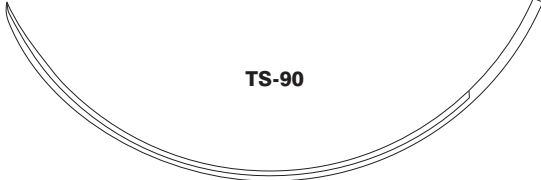



Silk black braided

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		½ circle, reverse cutting 			
75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black	HS-24 	5 - 0 4 - 0 3 - 0 2 - 0 0	1 1.5 2 3 3.5	6692 6693 6694 6695 6696
75 cm 75 cm 75 cm 75 cm	black black black black	HS-30 	3 - 0 2 - 0 0 1	2 3 3.5 4	6714 6715 6716 6717
75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black	HS-38 	2 - 0 0 1 2 3	3 3.5 4 5 6	6725 6726 6727 6728 6729
75 cm 75 cm	black black	HS-52 	0 1	3.5 4	6746 6747
		½ circle cutting taper 			
75 cm 75 cm 75 cm	black black black	HSR-18 	5 - 0 4 - 0 3 - 0	1 1.5 2	621 622 623
75 cm 75 cm 75 cm	black black black	HSR-27 	4 - 0 3 - 0 2 - 0	1.5 2 3	624 625 626
		½ circle cutting taper, heavy 			
75 cm	black	HSRG-27 	2 - 0	3	63755
		3/8 circle taper (Round-Bodied) 			
75 cm 75 cm 75 cm 75 cm	black black black black	TR-13 	6 - 0 5 - 0 4 - 0 3 - 0	0.7 1 1.5 2	632 633 6423 6424




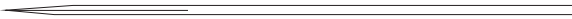
Silk black braided

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle, taper (Round-Bodied)			
75 cm	black	TR-17 	5 - 0	1	634
75 cm	black		4 - 0	1.5	635
75 cm	black		3 - 0	2	636
75 cm	black		2 - 0	3	6435
75 cm	black	TR-22 	5 - 0	1	6442
75 cm	black		4 - 0	1.5	6443
75 cm	black		3 - 0	2	6444
75 cm	black		2 - 0	3	6445
75 cm	black		0	3.5	6446
75 cm	black	TR-27 	3 - 0	2	6454
75 cm	black		2 - 0	3	6455
75 cm	black		0	3.5	6456
75 cm	black		1	4	6457
75 cm	black	TR-32 	3 - 0	2	6464
75 cm	black		2 - 0	3	6465
75 cm	black		0	3.5	6466
75 cm	black		1	4	6467
75 cm	black		2	5	6468
75 cm	black	TR-38 	2 - 0	3	6475
75 cm	black		0	3.5	6476
75 cm	black		1	4	6477
75 cm	black		2	5	6478
		3/8 circle, reverse cutting			
45 cm	black	TS-12 	6 - 0	0.7	643F
45 cm	black		5 - 0	1	644F
75 cm	black		5 - 0	1	644
45 cm	black		4 - 0	1.5	645F
75 cm	black		4 - 0	1.5	645
75 cm	black	TS-15 	6 - 0	0.7	6531
75 cm	black		5 - 0	1	6532
75 cm	black		4 - 0	1.5	6533
75 cm	black		3 - 0	2	6534
75 cm	black		2 - 0	3	6535
75 cm	black	TS-17 	6 - 0	0.7	659
75 cm	black		5 - 0	1	660
75 cm	black		4 - 0	1.5	6543
75 cm	black		3 - 0	2	6544
75 cm	black		2 - 0	3	6545
75 cm	black	TS-19 	5 - 0	1	646
75 cm	black		4 - 0	1.5	647
75 cm	black		3 - 0	2	648
75 cm	black		2 - 0	3	6555
75 cm	black	TS-22 	3 - 0	2	65544
75 cm	black	TS-24 	4 - 0	1.5	649
75 cm	black		3 - 0	2	650
75 cm	black		2 - 0	3	651
75 cm	black		0	3.5	6566

Silk black braided




Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		3/8 circle, reverse cutting 			
75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black	TS-27 	4 - 0 3 - 0 2 - 0 0 1	1.5 2 3 3.5 4	652 653 654 6576 6577
75 cm 75 cm 75 cm 75 cm 75 cm	black black black black black	TS-30 	4 - 0 3 - 0 2 - 0 0 1	1.5 2 3 3.5 4	6583 655 656 6586 6587
75 cm 75 cm 75 cm 75 cm	black black black black	TS-35 	3 - 0 2 - 0 0 1	2 3 3.5 4	65854 65855 65856 65857
75 cm 75 cm 75 cm 75 cm	black black black black	TS-38 	3 - 0 2 - 0 0 1	2 3 3.5 4	657 658 6596 6597
75 cm 75 cm 75 cm	black black black	TS-45 	0 1 2	3.5 4 5	6606 6607 6608
75 cm 75 cm 75 cm	black black black	TS-60 	0 1 2	3.5 4 5	6626 6627 6628
100 cm 100 cm 100 cm 100 cm	black black black black	TS-90 	2 - 0 0 1 2	3 3.5 4 5	66255H 66256H 66257H 66258H
		3/8 circle reverse cutting, double-armed 			
45 cm 45 cm 45 cm	black black black	2 x TS-12 	6 - 0 5 - 0 4 - 0	0.7 1 1.5	947F 948F 949F
38 cm 38 cm 38 cm	black black black	2 x TS-17 	5 - 0 4 - 0 3 - 0	1 1.5 2	6152TE 6153TE 6154TE

Silk black braided

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
		straight cutting 			
75 cm 75 cm 75 cm 75 cm	black black black black	RS-50 	4 - 0 3 - 0 2 - 0 0	1.5 2 3 3.5	6833 6834 6835 6836
75 cm 75 cm 75 cm	black black black	RS-58 	2 - 0 0 1	3 3.5 4	6845 6846 6847
100 cm 100 cm 100 cm	black black black	RS-75 	2 - 0 0 1	3 3.5 4	6855H 6856H 6857H

Ophthalmic sutures

Micropoint-Spatula needles on Blue Virgin Silk

Length	Thread Colour	Needle Code and Length in mm	USP	EP	REF
30 cm	blue	2 x TSP 6  Curved, 6,2 mm long, spatula, 150 microns, double-armed	8 - 0	0.4	684568
45 cm	blue	2 x TSP 7  Curved, 6,4 mm long, spatula, 200 microns, double-armed	8 - 0	0.4	686688
30 cm	blue	2 x HSP 8  ½ circle, 8 mm long, spatula, 200 microns, double-armed	8 - 0	0.4	622668

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Silk black braided

Pre-cut sutures without needle

Number of Strands x Length	Thread Colour	USP	EP	REF
1 x 100 cm	black	6 - 0	0.7	691
1 x 100 cm	black	5 - 0	1	692
1 x 100 cm	black	4 - 0	1.5	693
1 x 100 cm	black	3 - 0	2	694
1 x 100 cm	black	2 - 0	3	695
1 x 100 cm	black	0	3.5	696
1 x 100 cm	black	1	4	697
1 x 100 cm	black	2	5	698
1 x 100 cm	black	3	6	699
1 x 150 cm	black	3 - 0	2	60034
1 x 150 cm	black	2 - 0	3	60035
1 x 150 cm	black	0	3.5	60036
1 x 180 cm	black	4 - 0	1.5	60043
1 x 180 cm	black	3 - 0	2	60044
1 x 180 cm	black	2 - 0	3	60045
1 x 180 cm	black	0	3.5	60046
1 x 180 cm	black	1	4	60047
5 x 75 cm	black	4 - 0	1.5	681
5 x 75 cm	black	3 - 0	2	682
5 x 75 cm	black	2 - 0	3	683
5 x 75 cm	black	0	3.5	684
5 x 75 cm	black	1	4	685
17 x 50 cm	black	5 - 0	1	671
17 x 50 cm	black	4 - 0	1.5	672
17 x 50 cm	black	3 - 0	2	673
17 x 50 cm	black	2 - 0	3	674
17 x 50 cm	black	0	3.5	675
17 x 50 cm	black	1	4	676
17 x 50 cm	black	2	5	677
13 x 60 cm	black	6 - 0	0.7	60001
13 x 60 cm	black	5 - 0	1	60002
13 x 60 cm	black	4 - 0	1.5	60003
13 x 60 cm	black	3 - 0	2	60004
13 x 60 cm	black	2 - 0	3	60005
13 x 60 cm	black	0	3.5	60006
13 x 60 cm	black	1	4	60007
13 x 60 cm	black	2	5	60008

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www.assutsutures.com

Assut sutures

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Assut Medical Sàrl

P.O. Box 5

CH-1009 Pully-Lausanne

Switzerland

Tel: ++ 41-21 - 728.64.35

Fax: ++ 41-21 - 728.64.49

e-mail: info@assutsutures.com

www.assutsutures.com