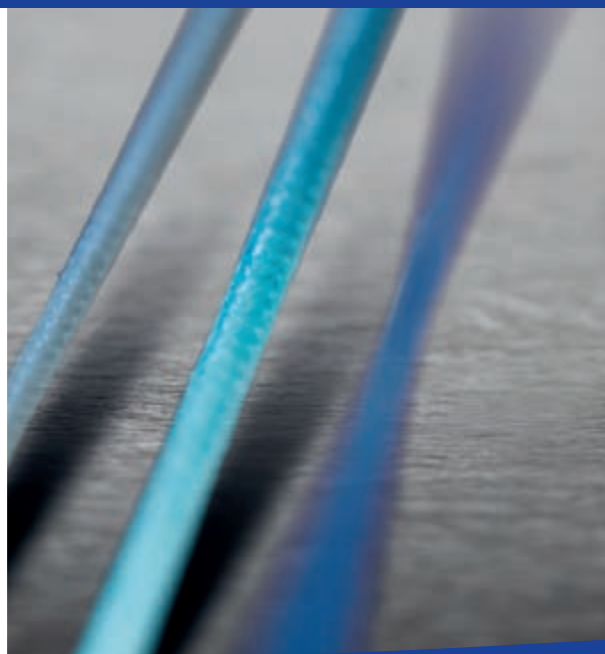




# Surgical Sutures & Meshes

State of the art





## When experience matters

Our surgical sutures are manufactured in line with state of the art technology. Each individual production process is subject to strict scientific quality control.

Continuous inspection of both mechanical and microbiological characteristics is given top priority.

We have more than 90 years of experience in manufacturing surgical sutures.

Our team understands the specific needs of medical professionals by providing them with access to the most complete portfolio of surgical sutures.

The result is the current modern product range of absorbable and non-absorbable sutures, which consists of more than 1500 individual surgical suture products.

Production takes place in accordance with GMP guidelines, and a comprehensive quality management system in line with ISO 13485 has been implemented.

All products have been CE marked since 1999.



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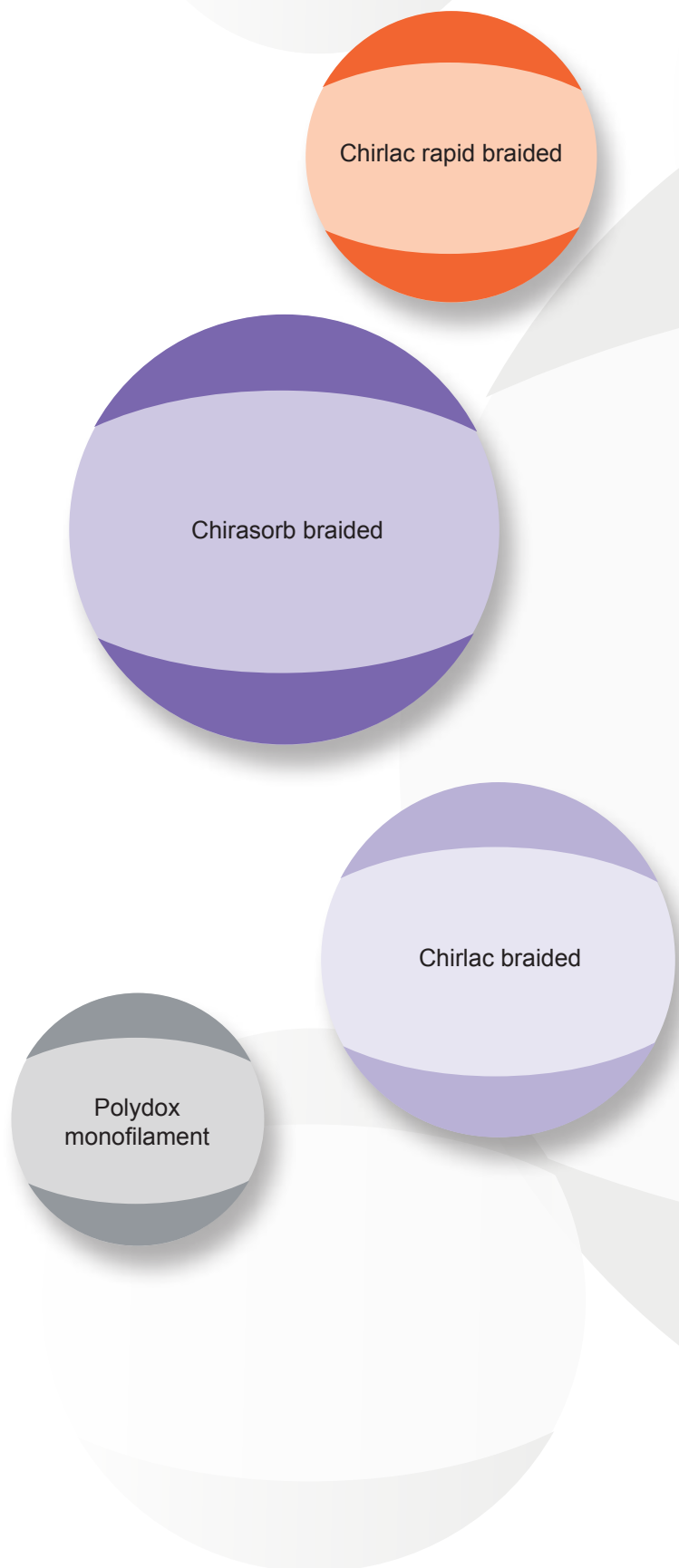
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# Surgical Sutures - Colour coding



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Surgical Sutures - Overview





Silk braided

Tervalon braided

Chiralen monofilament

Silon braided

Chiraflon monofilament

Silon monofilament

Monolac monofilament

Chirasorb rapid braided

Chirasorb Plus braided

# Surgical Sutures - Absorbable threads

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## CHIRASORB rapid braided

Intended for use in Skin closure, Paediatric surgery, Episiotomies, Circumcision, Closure of oral mucosa and Ophthalmic surgery for conjunctival sutures.



Composition	Colour	Range	Characteristics
Braided and coated suture made from 90% glycolide and 10% L-lactide	Violet and Natural	6/0 to 2 USP	Absorbable, multifilament, coated, synthetic, high tensile strength, reduced capillary effect, short-term healing

## CHIRLAC rapid braided

Intended for use in Gynaecology, Skin Closure, Ophthalmic, Odontology and Paediatric surgery.



Composition	Colour	Range	Characteristics
Braided and coated suture made of Polyglycolic acid (PGA)	Violet and Natural	6/0 to 4 USP	Absorbable, multifilament, coated, synthetic, high tensile strength, reduced capillary effect, short-term healing

## MONOLAC monofilament

General soft tissue approximation and/or ligation in all specialties, where an absorbable material is indicated.



Composition	Colour	Range	Characteristics
Monofilament suture made of Glycolide and $\epsilon$ -caprolactone	Violet and Natural	6/0 to 2 USP	Absorbable, monofilament, synthetic, high tensile strength, excellent handling properties, mid-term healing

## CHIRASORB braided

Intended for use in general soft tissue approximation and/or ligation in all specialties, including use in Ophthalmic surgery.



Composition	Colour	Range	Characteristics
Braided and coated suture made from 90% glycolide and 10% L-lactide	Violet and Natural	10/0 to 6 USP	Absorbable, multifilament, coated, synthetic, high tensile strength, reduced capillary effect, mid-term healing

## CHIRASORB Plus braided

### Antibacterial

Intended for use in general soft tissue approximation and/or ligation in all specialties.



Composition	Colour	Range	Characteristics
Antibacterial, braided and coated suture made from 90% glycolide, 10% L-lactide and chlorhexidine diacetate	Violet and Natural	5/0 to 4 USP	Absorbable, multifilament, anti-bacterial coating, synthetic, high tensile strength, reduced capillary effect, mid-term healing

## CHIRLAC braided

Intended for use in general soft tissue approximation and/or ligation, surgical adaptation of Muscles and Fascia, suturing of Parenchymal organs, Peripheral nerves and ligatures of small vessels and for Intradermal suturing.



Composition	Colour	Range	Characteristics
Braided and coated suture made of Polyglycolic acid (PGA)	Violet and Natural	9/0 to 6 USP	Absorbable, multifilament, coated, synthetic, high tensile strength, reduced capillary effect, mid-term healing

## POLYDOX monofilament

Intended for use in general soft tissue approximation, Orthopaedics, Fascia Closure, Urology, Gynaecology and Plastic surgery. Recommended for long-term healing.

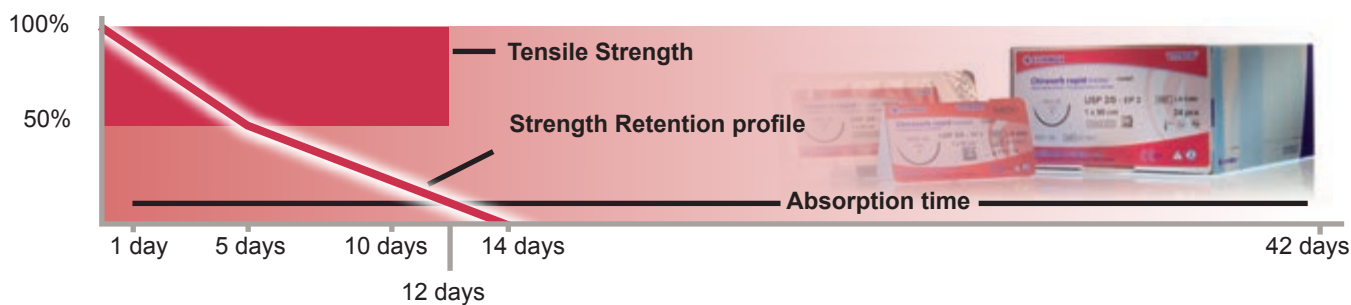


Composition	Colour	Range	Characteristics
Monofilament suture made of Poly-p-dioxanone	Violet and Natural	7/0 to 4 USP	Absorbable, monofilament, synthetic, high tensile strength, excellent knotting properties, long-term healing

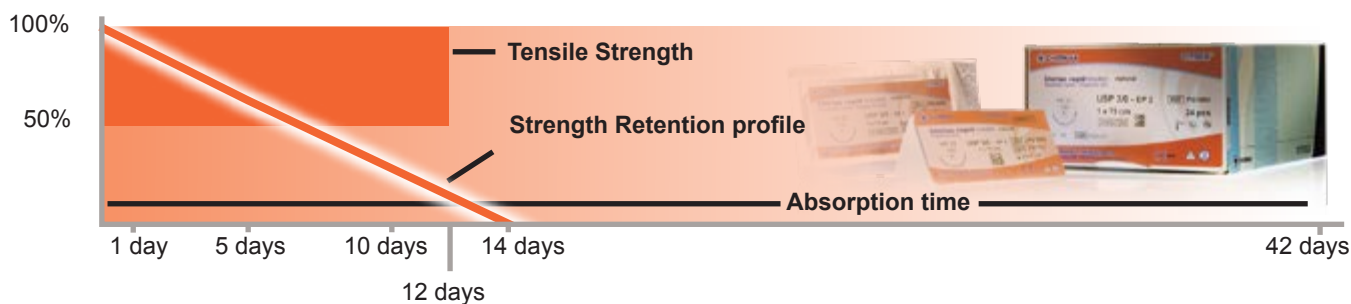
# Surgical Sutures - Absorbable threads

## SHORT-TERM HEALING

CHIRASORB Rapid Braided

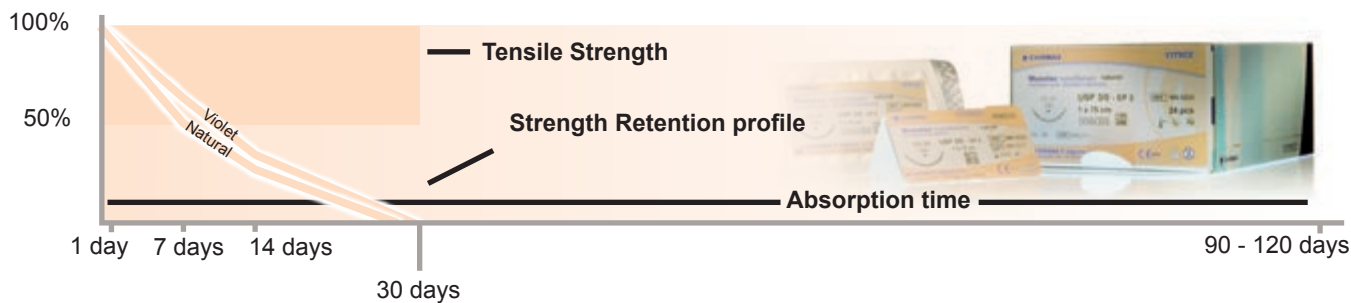


CHIRLAC Rapid Braided

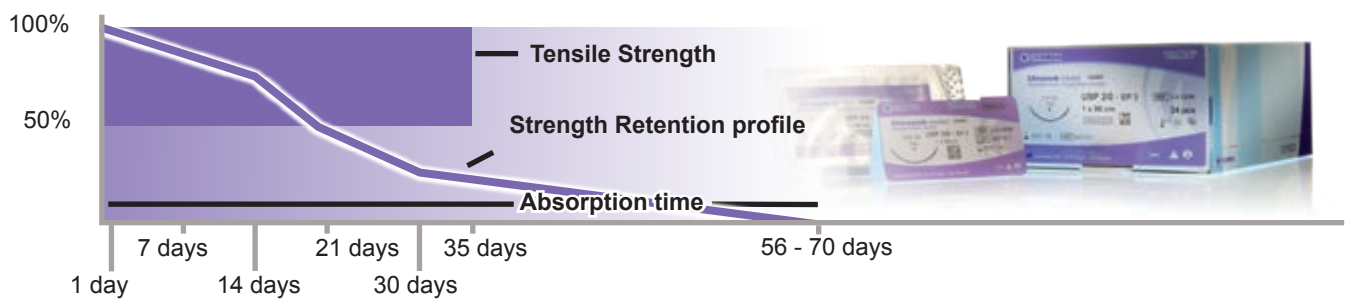


## MID-TERM HEALING

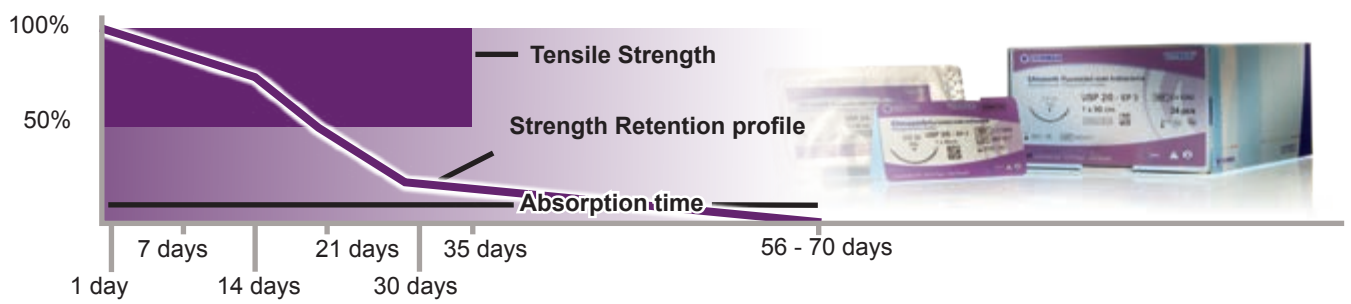
MONOLAC Monofilament



CHIRASORB Braided

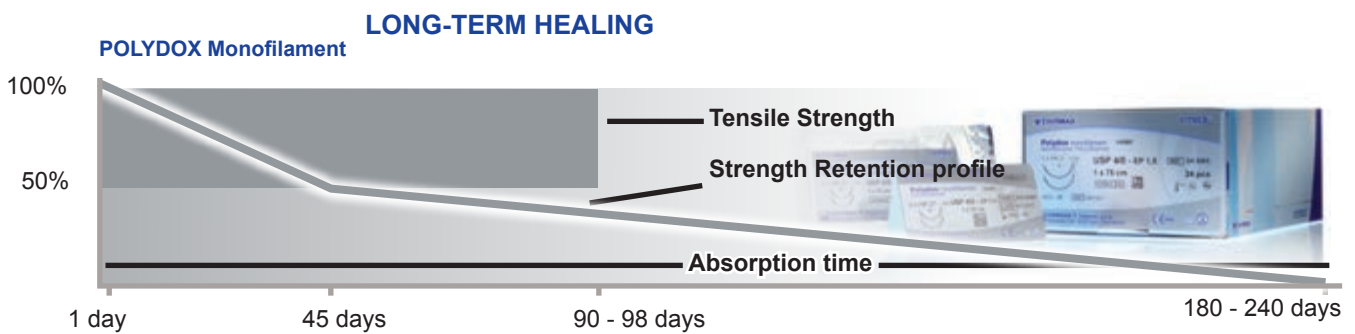
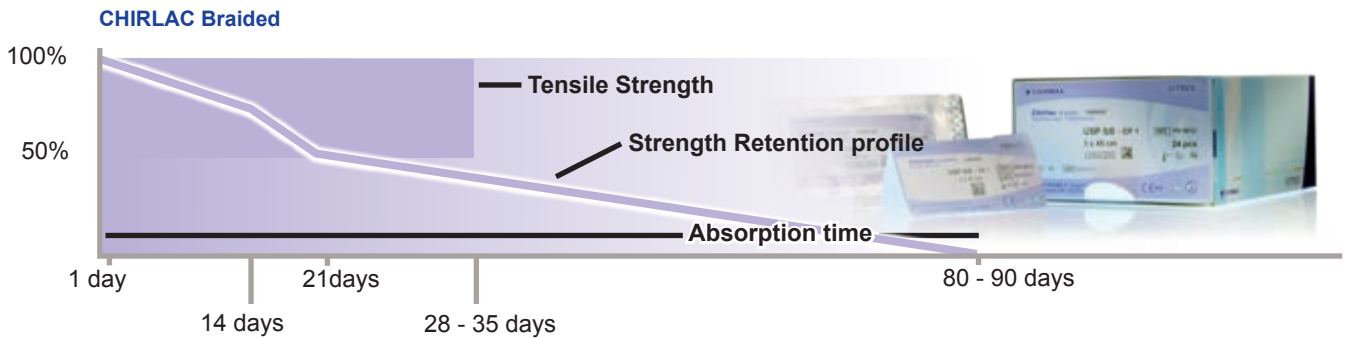


CHIRASORB Plus Braided





### MID-TERM HEALING



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VITREX MEDICAL SUTURES	Strength Retention profile	Tensile Strength	Absorption time
<b>CHIRASORB RAPID BRAIDED</b>	<b>SHORT-TERM HEALING</b> 1 day 100% 5 days 50% 10 - 14 days 0%	12 days	42 days
<b>CHIRLAC RAPID BRAIDED</b>	<b>SHORT-TERM HEALING</b> 1 day 100% 5 days 60% 10 - 14 days 0%	12 days	42 days
<b>MONOLAC MONOFILAMENT</b>	<b>MID-TERM HEALING</b> 1 day 100% 7 days 60% (violet) 14 days 50% (natural) 28 days 30% (violet) 20% (natural) 0%	30 days	90 - 120 days
<b>CHIRASORB BRAIDED</b>	<b>MID-TERM HEALING</b> 1 day 100% 14 days 75% 21 days 50% 30 days 25% 56 - 70 days 0%	35 days	56 - 70 days
<b>CHIRASORB PLUS BRAIDED</b>	<b>MID-TERM HEALING</b> 1 day 100% 14 days 75% 21 days 50% 56 - 70 days 0%	35 days	56 - 70 days
<b>CHIRLAC BRAIDED</b>	<b>MID-TERM HEALING</b> 1 day 100% 14 days 65% - 75% 21 days 45% - 50% 80 - 90 days 0%	28 - 35 days	80 - 90 days
<b>POLYDOX MONOFILAMENT</b>	<b>LONG-TERM HEALING</b> 1 day 100% 45 days 50% 180 - 240 days 0%	90 - 98 days	180 - 240 days

# Surgical Sutures - Non-absorbable threads

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## CHIRAFLON monofilament

Intended for use in all surgical specialities, especially Orthopaedic, Traumatology (tendons), Plastic and Ophthalmic surgery (optimal, temporary, easily, removable suture).



Composition	Colour	Range	Characteristics
Monofilament suture made of Polyvinylidene Fluoride (PVDF) - similar to Teflon	Blue	8/0 to 3 USP	Non-absorbable, monofilament, synthetic, no capillary effect, very smooth, excellent knotting properties, easy to handle, physiologically inert

## CHIRALEN monofilament

Intended for use in all surgical specialities, especially Cardiovascular, Plastic, Reconstructive, Ophthalmic, Orthopaedics and Traumatology (tendons).



Composition	Colour	Range	Characteristics
Monofilament suture made of Polypropylene	Blue and Black	10/0 to 2 USP	Non-absorbable, monofilament, synthetic, no capillary effect, smooth, non-porous surface, suitable for stitches in infected wounds

## SILON monofilament

Intended for use in Plastic and General surgery and wherever suturing the skin.



Composition	Colour	Range	Characteristics
Monofilament suture made of Polyamide 6	Blue and Black	10/0 to 2 USP	Non-absorbable, monofilament, synthetic, very smooth, excellent knotting properties, easy to handle, loss of tensile strength after long-term implantation

## TERVALON braided

Intended for use whenever non-absorbability and low friction passage through tissues are needed. It is especially useful in suturing Tendons, Schwann sheaths and skin in Plastic and Reconstructive surgery.



Composition	Colour	Range	Characteristics
Braided and coated suture made of Polyester	Green and White	6/0 to 6 USP	Non-absorbable, multifilament, synthetic, high tensile strength, no capillary effect, well tolerated by the tissue, low friction

# Surgical Sutures - Non-absorbable threads

## SILON braided

Intended for use in Skin Closure, Subcutaneous tissue, Transversely cut muscles, Fascia, Peritoneum, Gastrointestinal Tract and Blood vessels ligation.



Composition	Colour	Range	Characteristics
Braided suture made of Polyamide	White and Black	5/0 to 5 USP	Non-absorbable, multifilament, synthetic, high tensile strength, excellent knotting properties, loss of tensile strength after long-term implantation

## SILK braided

Intended for use in Skin closure, Subcutaneous tissue, Fascia, Peritoneum, Plastic surgery, Gynaecology and the organs of the Gastrointestinal tract.



Composition	Colour	Range	Characteristics
Braided and coated suture made of Silk	Black	9/0 to 5 USP	Non-absorbable, multifilament, synthetic, no capillary effect, loss of tensile strength after long-term implantation

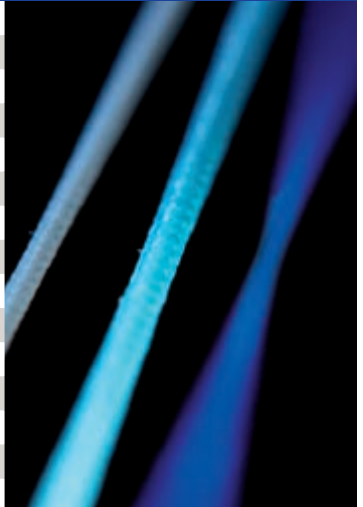
## European Pharmacopoeia

The publication of the European Pharmacopoeia (Ph. Eur.) resulted in a standardization of the classification of threads and gauges of surgical suture material.

The Ph. Eur. specifies a decimal classification and metric coding for the gauges. It quotes a thread diameter of 1/10 mm, so that the thread gauge of 3.5 has a diameter of 0.35 mm.

The following table of the gauges gives a comparison of the metric and the USP gauge coding.

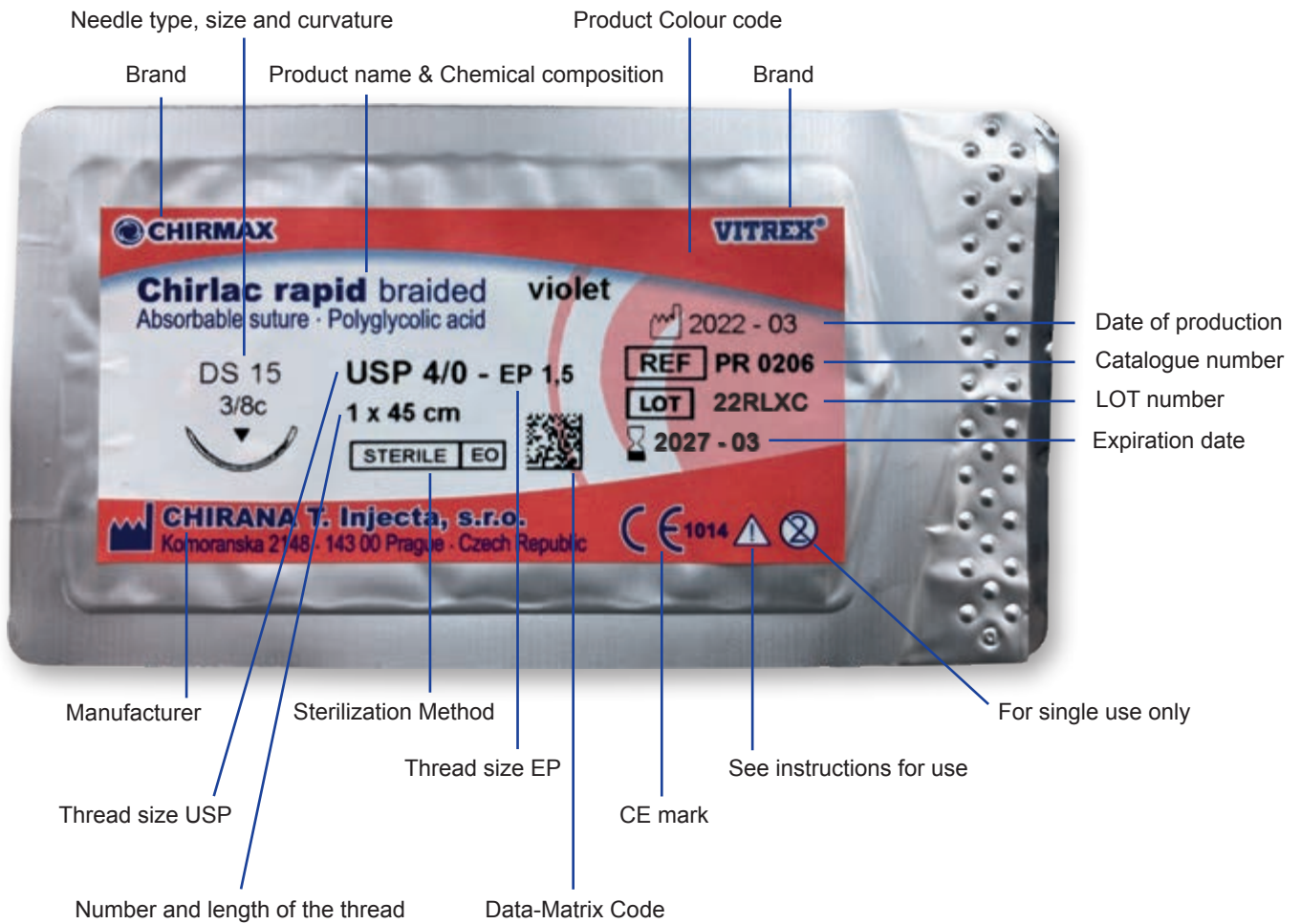
EP/ Metric	USP	Ø (mm)	Ø (mm) Absorbable monofilaments
0.2	<b>10-0</b>	0,020-0,029	
0.3	<b>9-0</b>	0,030-0,039	
0.4	<b>8-0</b>	0,040-0,049	
0.5	<b>7-0</b>	0,050-0,069	0,050-0,094
0.7	<b>6-0</b>	0,070-0,099	0,095-0,149
1	<b>5-0</b>	0,100-0,149	0,150-0,199
1.5	<b>4-0</b>	0,150-0,199	0,200-0,249
2	<b>3-0</b>	0,200-0,249	0,250-0,339
3	<b>2-0</b>	0,300-0,349	0,340-0,399
3.5	<b>0</b>	0,350-0,399	0,400-0,499
4	<b>1</b>	0,400-0,499	0,500-0,570
5	<b>2</b>	0,500-0,599	0,571-0,610
6	<b>3+4</b>	0,600-0,699	
7	<b>5</b>	0,700-0,799	
8	<b>6</b>	0,800-0,899	



# Labelling and Packaging

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Surgical Sutures - Overview



## Identification label

For quick registration

The label contains:

Name of material

Batch / LOT number

Expiration date

Catalogue number

Manufacturer

**CHIRLAC**  
**LOT 22RLXC**  
**2027-03 PR 0206**  
CHIRANA T. Injecta







## Packaging

The packaging of CTI's surgical suture material is stable, user-friendly and functional. It provides optimal mechanical and bacterial safety.

The sutures are ready for use in a sterile foil or aluminium pack.

Each primary sales unit contains 24 individual packs, whereas some contain 12 individual packs (Loop sutures or Microsurgery sutures) or 20 individual packs (Chirapack sutures).

### Short threads

Pre-cut length surgical sutures.

### Atraumatic sutures

Pre-cut length surgical sutures, armed with a drilled end needle, ready for use.

Removable needles are marked with an A behind the needle description.

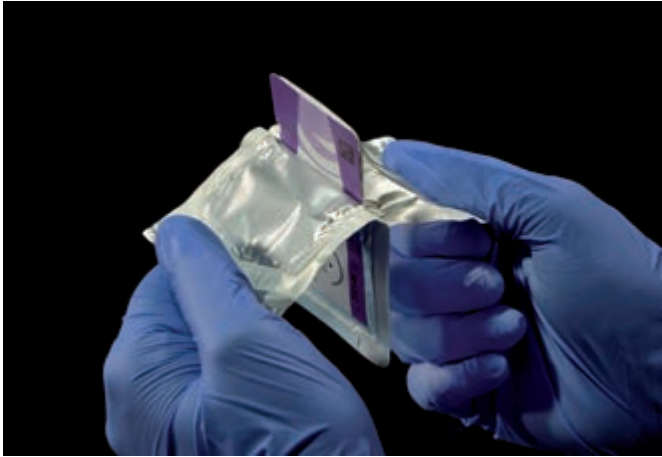
### Chirapack

2.5 or 3 meters of suture material on a thread spool, ready for use. Each sales unit contains 20 individual packs.



## How to unpack the suture - Alufoil

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1. Open the non-sterile outer package



2. Transfer to sterile area



3. Tear off the opening system, indicated by the dotted line

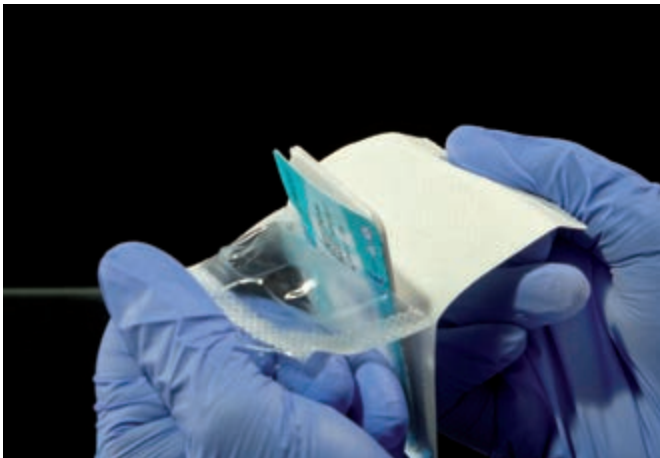


4. Take immediate, direct hold of the needle. Pull out the suture towards the right

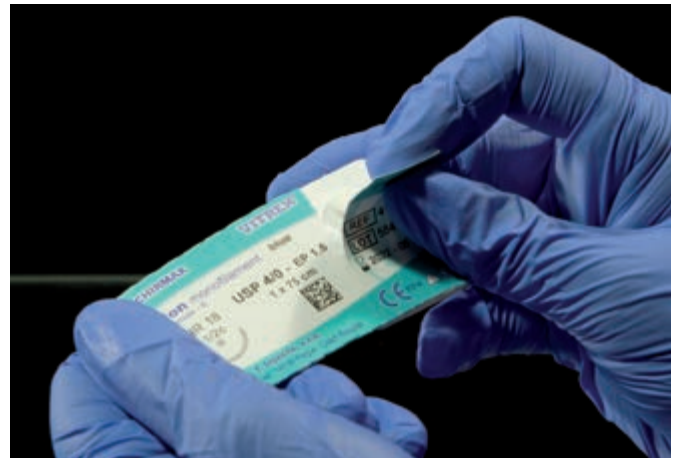




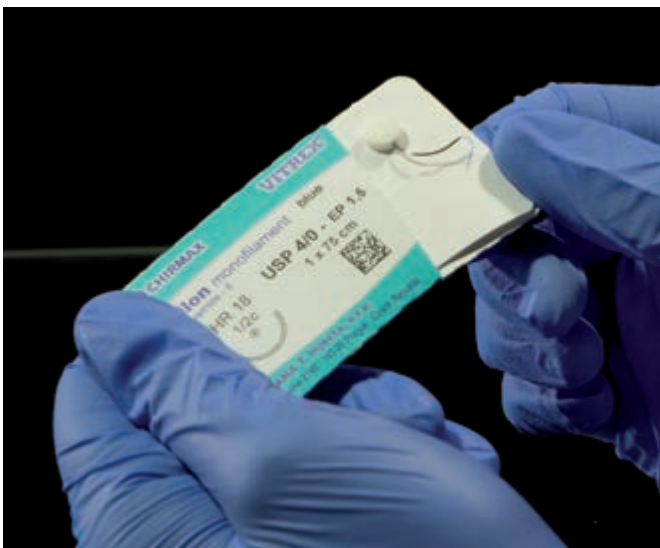
## How to unpack the suture - Blisterfoil



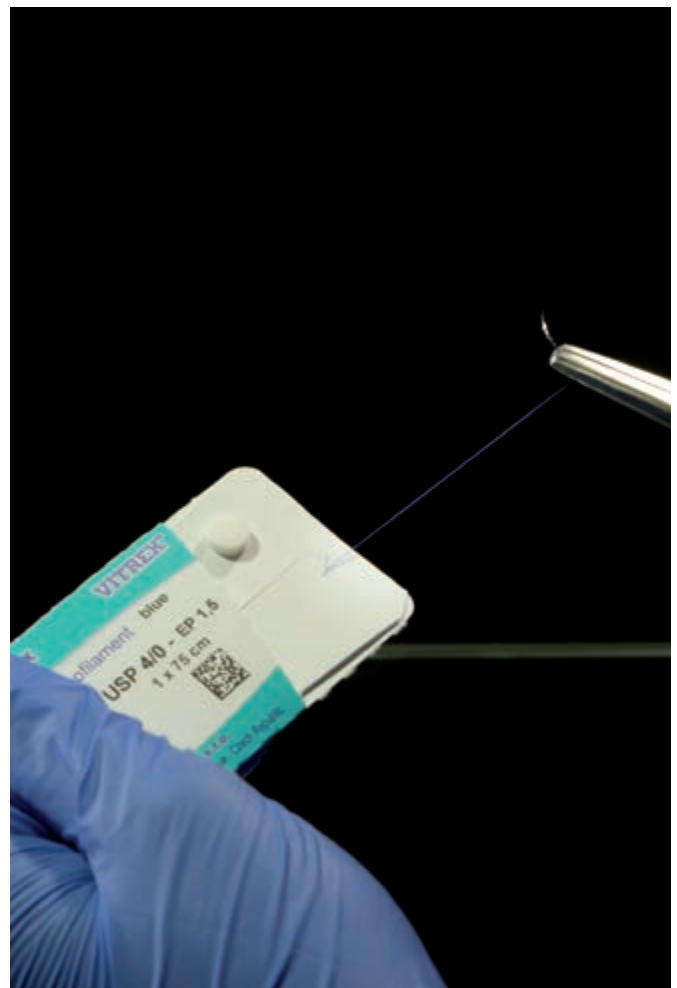
1. Open the non-sterile outer package



2. Transfer to sterile area



3. Tear off the opening system, indicated by the dotted line

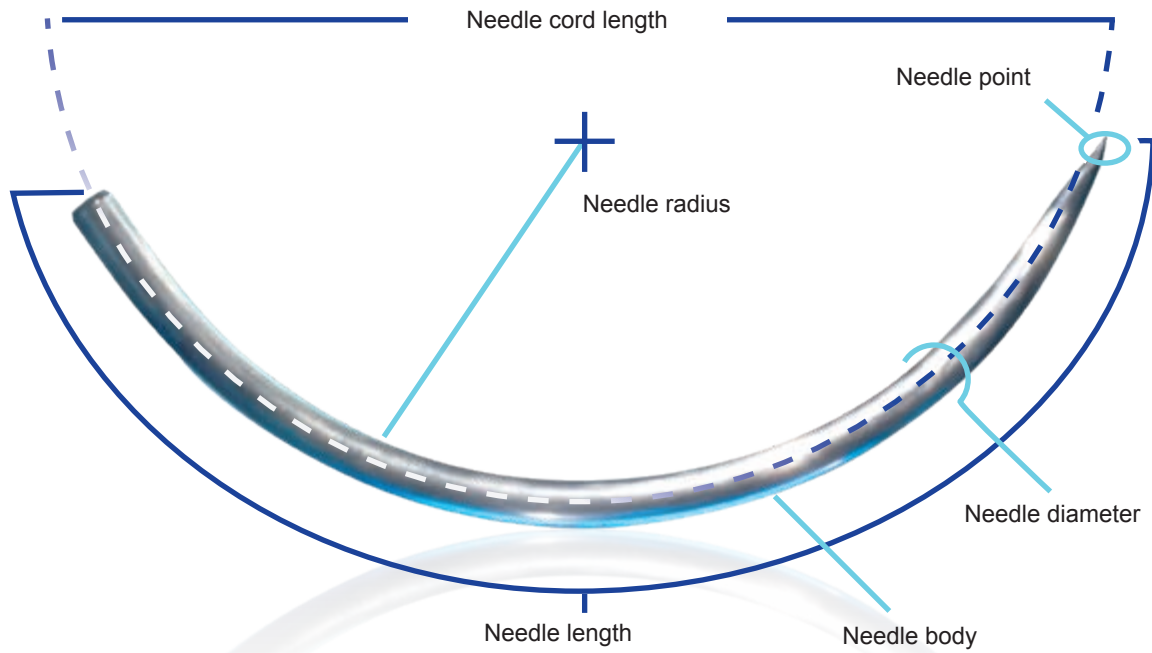


4. Take immediate, direct hold of the needle. Pull out the suture towards the right



# Surgical Sutures - Needle geometry

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**Taper point**  
(round body)



**Trapezoid spatulated**



**Conventional cutting**  
(inside cutting edge)



**Tapercut**



**Reverse trapezoid spatulated**



**Reverse cutting**  
(outside cutting edge)



**Blunt point**





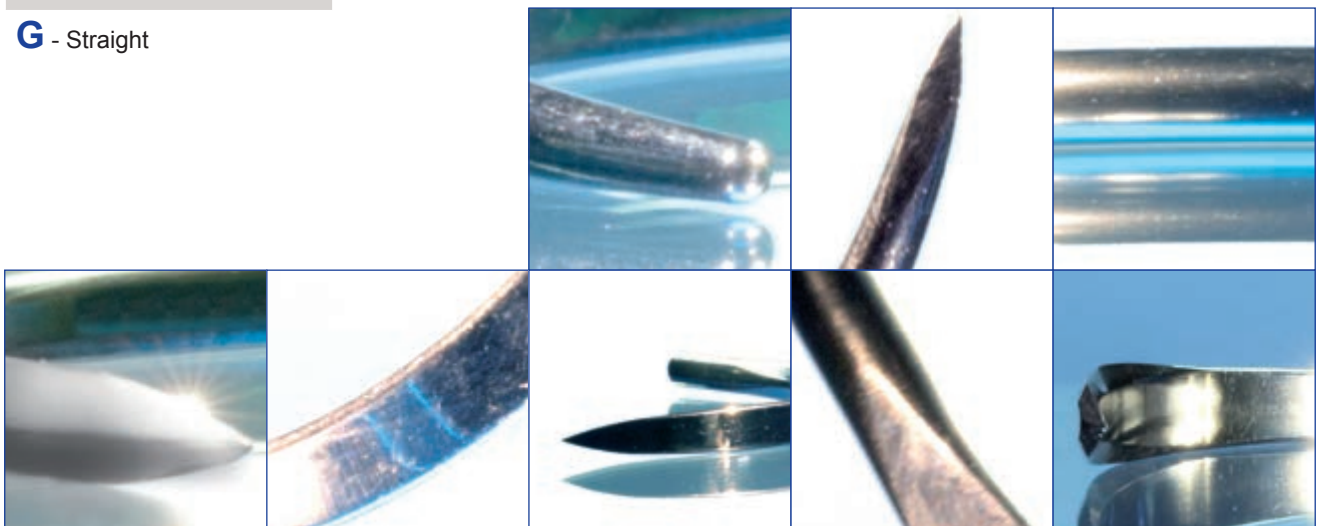


Needle Curvature	Needle Body	Needle Point	Speciality
<b>V</b> - 1/4	<b>R</b> - Round body	<b>T</b> - Tapercut	<b>S</b> - Slim, rectangular body
<b>H</b> - 1/2	<b>S</b> - Reverse cutting	<b>N</b> - Blunt	<b>A</b> - Take-off needle
<b>D</b> - 3/8	<b>SC</b> - Conventional cutting	<b>M</b> - Micropoint	<b>X</b> - Extra strong needle
<b>F</b> - 5/8	<b>LZ</b> - Spatula		<b>Black</b> - Black needle
<b>J</b> - Hook	<b>RF</b> - Round, flattened body		

**A** - Asymmetric

**K** - Ski

**G** - Straight

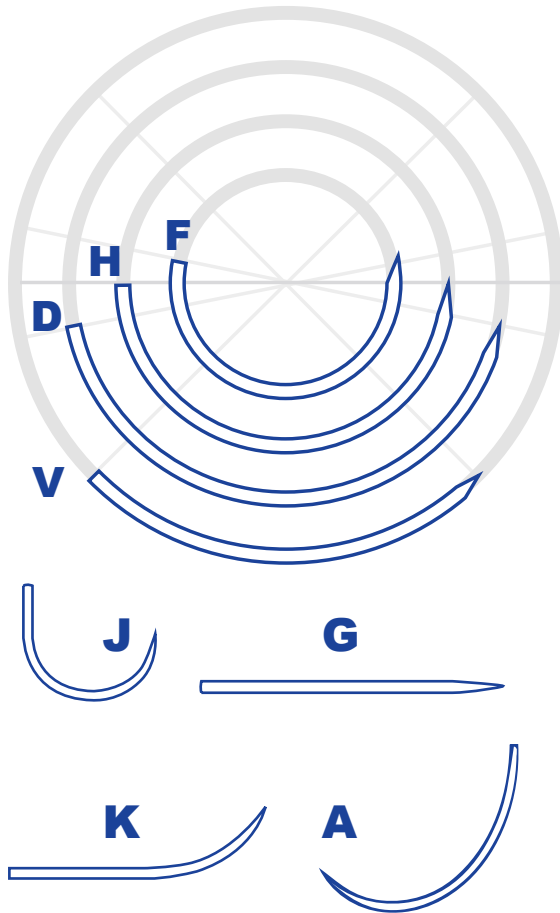


# Surgical Sutures - Needle geometry

## Needle curvature

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Surgical Sutures - Overview



<b>F</b>	5/8 circle	Anal region, Nasal cavity, Urogenital tract, Pelvic region or other confined spaces.
<b>H</b>	1/2 circle	Gastrointestinal tract, Respiratory tract, Urogenital tract, Cardiovascular, Fascia, Muscle, Nasal cavity, Oral cavity, Eye, Pelvis, Skin, Tendons, Subcutaneous fat.
<b>D</b>	3/8 circle	Cardiovascular, Aponeurosis, Nerves, Dura-mater, Fascia, Periostium, Pleura, Urogenital tract, Myocardium, Skin, Eye, Muscles.
<b>V</b>	1/4 circle	Ophthalmology
<b>J</b>	Hook	Urology, laparoscopy
<b>G</b>	Straight	Nasal cavity, Gastrointestinal tract, Oral cavity, Skin, Tendons, Larynx, Vessels.
<b>K</b>	Ski	Laparoscopy, Skin. Allows easy removal of fragments and easy needle holder manipulation.
<b>A</b>	Asymmetric	Plastic, Aesthetics, Robotics, Endoscopy.

## Needle/thread combinations

### SINGLE ARMED

Single stitch  
Continuous suture

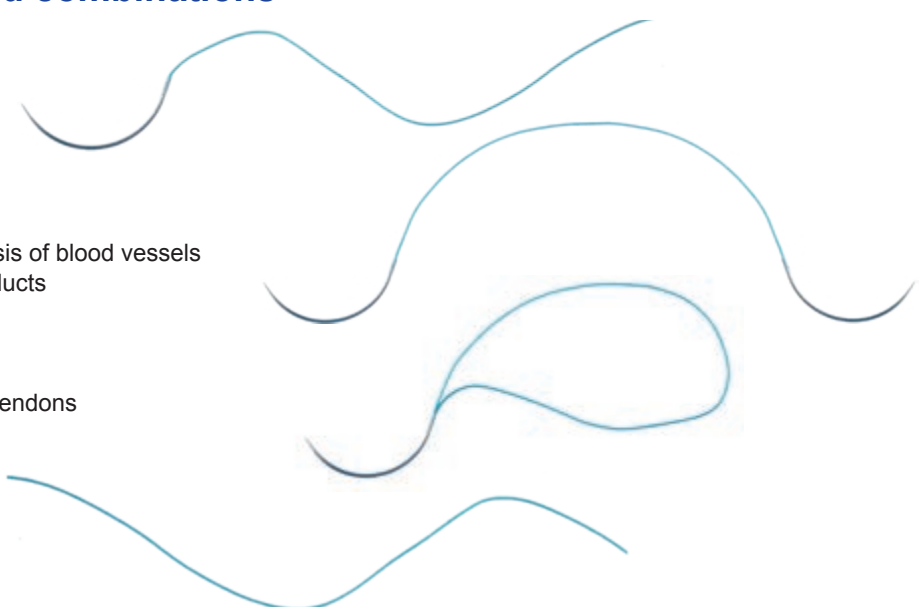
### DOUBLE ARMED

Mainly for anastomosis of blood vessels  
or other anatomical ducts

### LOOP

Abdominal wall and tendons

### LIGATURES



# Surgical Sutures - Needle range

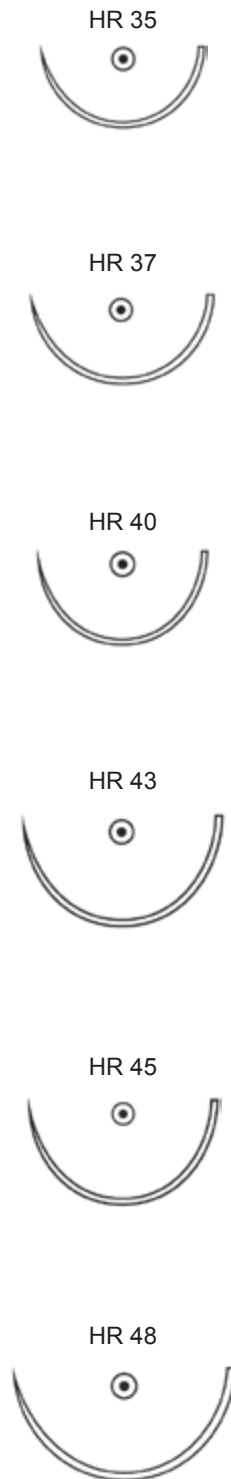
HR 

½ circle, round body needle



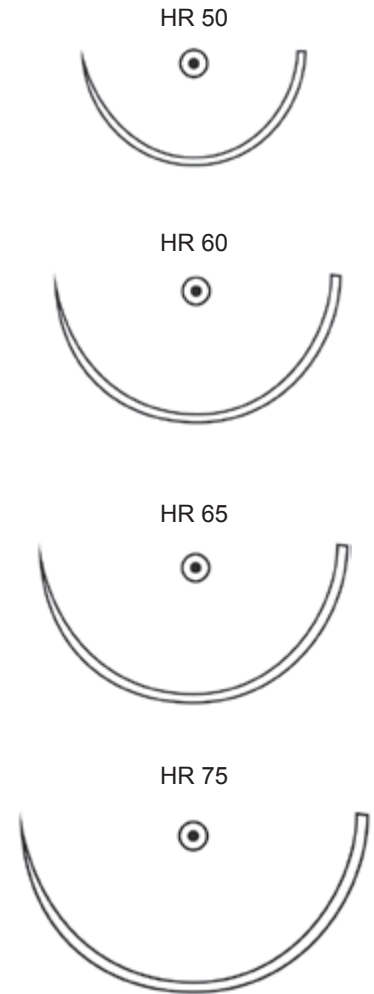
HR 

½ circle, round body needle



HR 

½ circle, round body needle



The needle pictures are only for illustration



# Surgical Sutures - Needle range

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HR s 

HRX 

HRX 

HR s 18



HR s 22 Black



HR s 27 Black



HRX 22



HRX 26



HRX 27



HRX 30



HRX 35



HRX 36



HRX 37



HRX 40



HRX 45



HRX 48



HRX 50



HRX 70



The needle pictures are only for illustration





# Surgical Sutures - Needle range

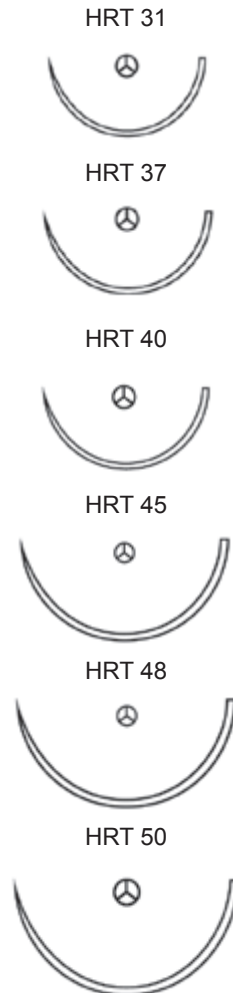
## HRT

½ circle, round body needle, tapercut



## HRT

½ circle, round body needle, tapercut



## HRTX

½ circle, round body needle - extra strong, tapercut



## HRN

½ circle, round body needle - blunt point



The needle pictures are only for illustration



# Surgical Sutures - Needle range

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## HRF

1/2 circle, flattened body needle, taper point



## DR

3/8 circle, round body needle



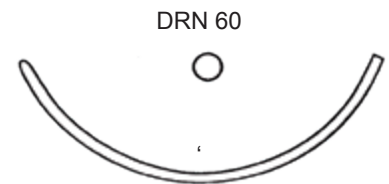
## DRT

3/8 circle, round body needle, tapercut



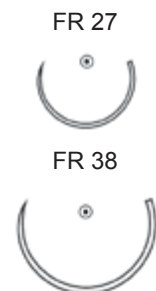
## DRN

3/8 circle, round body needle, blunt point
























## FR

5/8 circle, round body needle



The needle pictures are only for illustration

# Surgical Sutures - Needle range

GR 	JRT 	HS 
<p>Straight, round body needle</p> <p>GR 20 </p> <p>GR 45 </p>	<p>Hook shaped, round body needle, tapercut</p> <p>JRT 30 </p>	<p>½ circle, reverse cutting needle</p> <p>HS 12 </p> <p>HS 15 </p> <p>HS 18 </p> <p>HS 21 </p> <p>HS 22 </p> <p>HS 25 </p> <p>HS 26 </p> <p>HS 27 </p> <p>HS 30 </p> <p>HS 36 </p>
<p><b>KR </b></p> <p>Ski needle, round body</p> <p>KR 27 </p>	<p><b>J-RX </b></p> <p>Hook shaped, round body needle</p> <p>J-RX 22 </p> <p>J-RX 30 </p>	<p>The needle pictures are only for illustration</p>

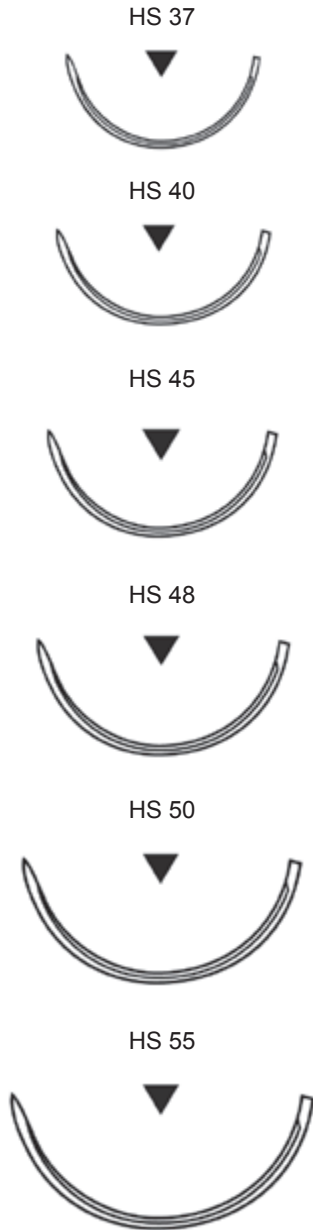
# Surgical Sutures - Needle range

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Surgical Sutures - Overview

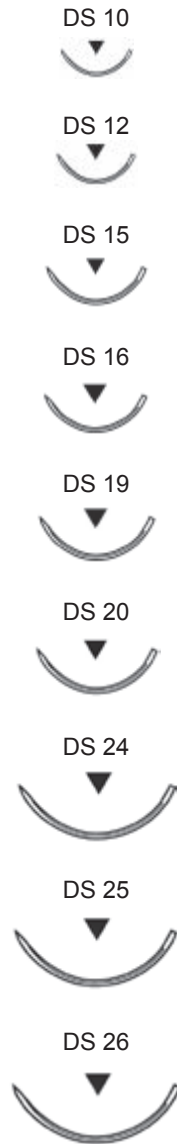
## HS ▼

½ circle, reverse cutting needle



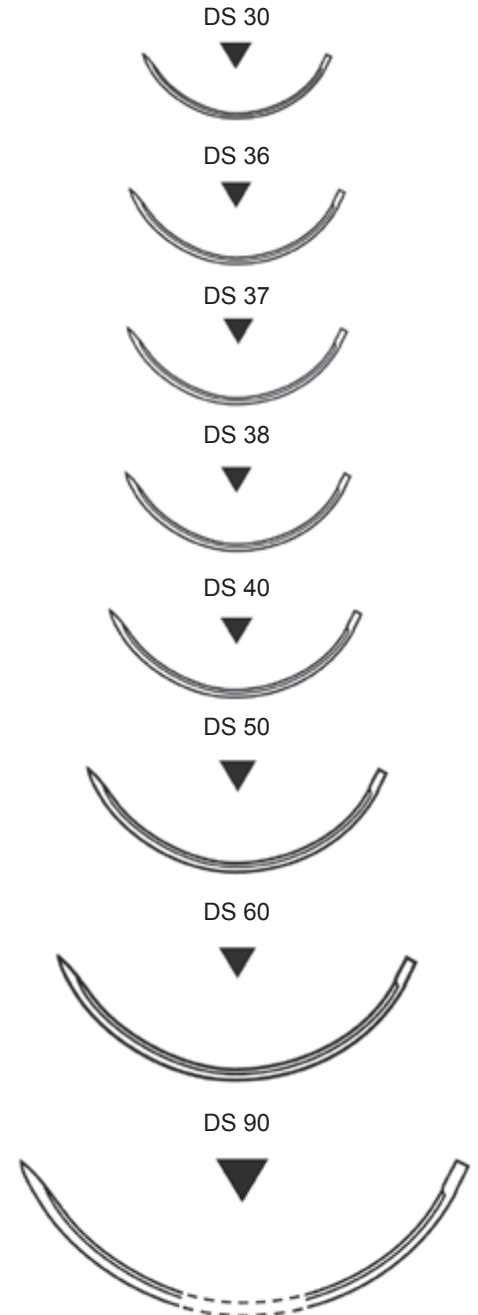
## DS ▼

3/8 circle, reverse cutting needle

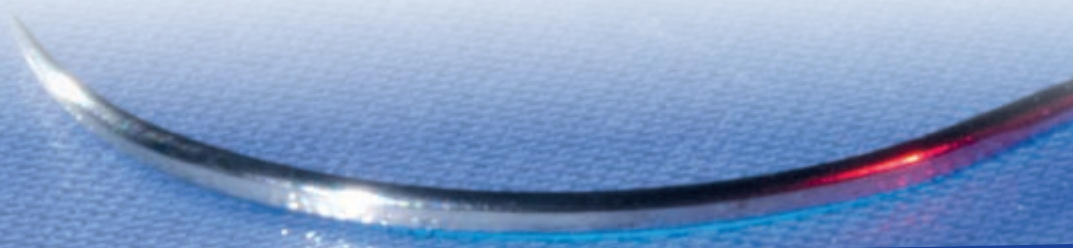


## DS ▼

3/8 circle, reverse cutting needle























The needle pictures are only for illustration





# Surgical Sutures - Needle range

DSC ▲	DSM ▼	GS ▼
<p>3/8 circle, conventional cutting needle</p> <p>DSC 15 </p> <p>DSC 16 </p> <p>DSC 22 </p> <p>DSC 25 </p> <p>DSC 26 </p> <p>DSC 40 </p> <p>DSC 60 </p> <p>DSC 90 </p>	<p>3/8 circle, reverse cutting needle, micropoint</p> <p>DSM 6.5 </p> <p>DSM 12 </p> <p>DSM 15 </p> <p>DSM 19 </p>	<p>Straight, reverse cutting needle</p> <p>GS 13 </p> <p>GS 50 </p> <p>GS 60 </p> <p>GS 65 </p> <p>GS 75 </p>
	<p><b>DSMC ▲</b></p> <p>3/8 circle, conventional cutting needle, micropoint</p> <p>DSMC 16 </p> <p>DSMC 19 </p> <p>DSMC 20 </p>	

The needle pictures are only for illustration

# Surgical Sutures - Needle range

Microsurgery

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Surgical Sutures - Overview

## DR

3/8 circle, round body needle

DR 3.75



DR 5



DR 5 Black



DR 5.1



DR 6



DR 6.5



## DSM

3/8 circle, reverse cutting needle, micropoint

DSM 6.5



DSM 8



## VSM

1/4 circle, reverse cutting needle, micropoint

VSM 8



## HLZ

1/2 circle, spatulated

HLZ 8



## DLZ

3/8 circle, spatulated

DLZ 6.2



DLZ 6.4



## VLZ

1/4 circle, spatulated

VLZ 8



## GLZ

Straight, spatulated

GLZ 16



# Absorbable

**Chirasorb rapid braided**

**Chirlac rapid braided**

**Monolac monofilament**

**Chirasorb braided**

**Chirasorb Plus braided**

**Chirlac braided**

**Polydox monofilament**

# Absorbable

Absorbable

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**Chirasorb rapid  
braided**

chirasorb

Chirasorb  
rapid



## CHIRASORB rapid braided

CHIRASORB rapid braided is a short-term absorbable, coated, synthetic, multifilament suture made of 90% glycolide and 10% L-lactide. The substances contained in the coating and suture are nonantigenic and noncollagenous. Sterile Chirasorb rapid braided is available in violet and natural.

Absorption begins as a loss of tensile strength without appreciable loss of mass. The product elicits a minimal acute inflammatory reaction in tissues.

Progressive loss of tensile strength and absorption of Chirasorb rapid braided occurs by hydrolysis, when the polymer is degraded to glycolic and lactic acids, which are subsequently absorbed and metabolised by the body.



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**Indication:** Skin closure (e.g. intracutaneous, subcutaneous), Paediatric surgery, Episiotomies, Circumcision, Closure of oral mucosa and Ophthalmic surgery for conjunctival sutures.

**Contraindication:** Chirasorb rapid braided should not be used in tissues subject to expansion, stretching or distension, or which might require long-term mechanical support.

**Sizes:** 6/0 to 2 USP

**Structure:** Multifilament

**Absorption method:** Hydrolysis

**Strength Retention Profile:** SHORT-TERM HEALING (12 days)

1 Day	100%
5 Days	50%
10-14 Days	0%

**Mass Absorption profile:** 42 days

# CHIRASORB rapid braided violet ligatures

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## Pre-cut threads

EP	USP	Length	Cat. No
1	5/0	3 x 45 cm	LR 0012
1.5	4/0	3 x 45 cm	LR 0013
2	3/0	3 x 45 cm	LR 0014
3	2/0	3 x 45 cm	LR 0015
3.5	0	3 x 45 cm	LR 0016
4	1	3 x 45 cm	LR 0017
5	2	3 x 45 cm	LR 0018
1	5/0	<b>6 x 45 cm</b>	LR 0042
1.5	4/0	6 x 45 cm	LR 0043
2	3/0	6 x 45 cm	LR 0044
3	2/0	6 x 45 cm	LR 0045
3.5	0	6 x 45 cm	LR 0046
4	1	6 x 45 cm	LR 0047
1	5/0	2 x 75 cm	LR 0022
1.5	4/0	2 x 75 cm	LR 0023
2	3/0	2 x 75 cm	LR 0024
3	2/0	2 x 75 cm	LR 0025






## Pre-cut threads

EP	USP	Length	Cat. No
3.5	0	2 x 75 cm	LR 0026
4	1	2 x 75 cm	LR 0027
5	2	2 x 75 cm	LR 0028
2	3/0	<b>1 x 150 cm</b>	LR 0084
3	2/0	1 x 150 cm	LR 0085
3.5	0	1 x 150 cm	LR 0086

## Chirapack - 20 pcs./box










EP	USP	Length	Cat. No
1.5	4/0	1 x 300 cm	LR 0003
2	3/0	1 x 300 cm	LR 0004
3	2/0	1 x 300 cm	LR 0005
3.5	0	1 x 300 cm	LR 0006
4	1	1 x 300 cm	LR 0007
5	2	1 x 300 cm	LR 0008

Absorbable - Chirasorb rapid braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
 HR 13	1	5/0	1 x 75 cm	Violet	LR 0254	
	1.5	4/0	1 x 75 cm	Violet	LR 0255	
 HR 18	1.5	4/0	1 x 75 cm	Violet	LR 0256	
	2	3/0	1 x 75 cm	Violet	LR 0257	
 HR 22	1.5	4/0	1 x 75 cm	Violet	LR 0261	
	2	3/0	1 x 75 cm	Violet	LR 0262	
	3	2/0	1 x 75 cm	Violet	LR 0263	
 HR 27	2	3/0	1 x 75 cm	Violet	LR 0266	
	3	2/0	1 x 75 cm	Violet	LR 0267	
	3.5	0	1 x 75 cm	Violet	LR 0268	
 HR 30	3.5	0	1 x 75 cm	Violet	LR 0269	
 HR 35	2	3/0	1 x 75 cm	Violet	LR 0270	
	3	2/0	1 x 75 cm	Violet	LR 0271	
	3.5	0	1 x 90 cm	Violet	LR 0372	



## CHIRASORB rapid braided









Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 37 	3	2/0	1 x 45 cm	Violet	LR 0273	
HR 40 	3	2/0	1 x 75 cm	Violet	LR 0275	
	3.5	0	1 x 75 cm	Violet	LR 0276	
	4	1	1 x 75 cm	Violet	LR 0277	
	3	2/0	1 x 90 cm	Violet	LR 0375	
3.5	0	1 x 90 cm	Violet	LR 0376		
HR 48 	4	1	1 x 90 cm	Violet	LR 0295	
HR 60 	3.5	0	1 x 120 cm	Violet	LR 1281	
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 27 	4	1	1 x 75 cm	Violet	LR 0432	
HRX 35 	3	2/0	1 x 90 cm	Violet	LR 0380	
	3.5	0	1 x 90 cm	Violet	LR 0381	
	4	1	1 x 90 cm	Violet	LR 0382	
HRX 40 	3.5	0	1 x 90 cm	Violet	LR 0385	
	4	1	1 x 90 cm	Violet	LR 0386	
	5	2	1 x 90 cm	Violet	LR 0387	
HRX 45 	4	1	1 x 90 cm	Violet	LR 0390	
HRX 50 	4	1	1 x 90 cm	Violet	LR 0395	
	5	2	1 x 90 cm	Violet	LR 0396	








# CHIRASORB rapid braided

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Absorbable - Chirasorb rapid braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRT: ½ circle, round body needle - tapercut</b>						
 <p>HRT 37</p>	3.5	0	1 x 75 cm	Violet	LR 0593	
	3	2/0	1 x 90 cm	Violet	LR 0597	
	3.5	0	1 x 90 cm	Violet	LR 0598	
	4	1	1 x 90 cm	Violet	LR 0599	
	3	2/0	1 x 120 cm	Violet	LR 0697	
	3.5	0	1 x 120 cm	Violet	LR 0698	
<b>HRTX: ½ circle, round body needle - tapercut, extra strong</b>						
 <p>HRTX 50</p>	4	1	1 x 120 cm	Violet	LR 0729	
<b>HS: ½ circle, reverse cutting needle</b>						
 <p>HS 18</p>	1.5	4/0	1 x 75 cm	Violet	LR 0423	
	2	3/0	1 x 75 cm	Violet	LR 0424	
 <p>HS 21</p>	1.5	4/0	1 x 75 cm	Violet	LR 0300	
	2	3/0	1 x 75 cm	Violet	LR 0301	
 <p>HS 37</p>	4	1	1 x 90 cm	Violet	LR 0316	
 <p>HS 40</p>	4	1	1 x 75 cm	Violet	LR 0457	
	5	2	1 x 75 cm	Violet	LR 0458	
 <p>HS 48</p>	3.5	0	1 x 75 cm	Violet	LR 0466	
 <p>HS 55</p>	4	1	1 x 75 cm	Violet	LR 0476	
	5	2	1 x 75 cm	Violet	LR 0477	

## CHIRASORB rapid braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
DS: 3/8 circle, reverse cutting needle						
DS 12 	1 1.5	5/0 4/0	1 x 45 cm 1 x 45 cm	Violet Violet	LR 0202 LR 0203	
DS 15 	1.5 2	4/0 3/0	1 x 45 cm 1 x 45 cm	Violet Violet	LR 0206 LR 0207	
DS 19 	1 1.5 2 3	5/0 4/0 3/0 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet Violet	LR 0210 LR 0211 LR 0212 LR 0213	
DS 25 	1.5 2 3	4/0 3/0 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	LR 0223 LR 0224 LR 0225	
DS 30 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	LR 0234 LR 0235	



# CHIRASORB rapid braided natural ligatures

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## Pre-cut threads

EP	USP	Length	Cat. No
1	5/0	3 x 45 cm	LQ 0012
1.5	4/0	3 x 45 cm	LQ 0013
2	3/0	3 x 45 cm	LQ 0014
3	2/0	3 x 45 cm	LQ 0015
3.5	0	3 x 45 cm	LQ 0016
1.5	4/0	<b>6 x 45 cm</b>	LQ 0043
2	3/0	6 x 45 cm	LQ 0044
3	2/0	6 x 45 cm	LQ 0045
3.5	0	6 x 45 cm	LQ 0046

## Chirapack - 20 pcs./box







EP	USP	Length	Cat. No
1.5	4/0	1 x 300 cm	LQ 0003
2	3/0	1 x 300 cm	LQ 0004
3	2/0	1 x 300 cm	LQ 0005
3.5	0	1 x 300 cm	LQ 0006

# CHIRASORB rapid braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
 HR 13	1	5/0	1 x 45 cm	Natural	LQ 0252	
	1.5	4/0	1 x 45 cm	Natural	LQ 0253	
 HR 18	1	5/0	1 x 75 cm	Natural	LQ 0255	
	1.5	4/0	1 x 75 cm	Natural	LQ 0256	
	2	3/0	1 x 75 cm	Natural	LQ 0257	
 HR 22	1.5	4/0	1 x 75 cm	Natural	LQ 0261	
	2	3/0	1 x 75 cm	Natural	LQ 0262	
	3	2/0	1 x 75 cm	Natural	LQ 0263	
	3.5	0	1 x 75 cm	Natural	LQ 0264	
 HR 27	2	3/0	1 x 75 cm	Natural	LQ 0266	
 HR 40	3.5	0	1 x 75 cm	Natural	LQ 0276	
	3	2/0	1 x 90 cm	Natural	LQ 0375	
	3.5	0	1 x 90 cm	Natural	LQ 0376	
 HR 50	3.5	0	1 x 90 cm	Natural	LQ 1392	



## CHIRASORB rapid braided











Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 36 	3	2/0	1 x 90 cm	Natural	LQ 0383	
HRX 40 	3.5	0	1 x 90 cm	Natural	LQ 0385	
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 37 	4	1	1 x 90 cm	Natural	LQ 0599	
	3	2/0	1 x 120 cm	Natural	LQ 0697	
<b>HRF: ½ circle, flattened body needle, taper point</b>						
HRF 17 	1.5	4/0	1 x 75 cm	Natural	LQ 9256	
HRF 22 	1.5	4/0	1 x 75 cm	Natural	LQ 9261	
HRF 31 	3	2/0	1 x 75 cm	Natural	LQ 9269	
<b>HS: ½ circle, reverse cutting needle</b>						
HS 21 	2	3/0	1 x 75 cm	Natural	LQ 0301	



# CHIRASORB rapid braided

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Absorbable - Chirasorb rapid braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 15 	1.5	4/0	1 x 75 cm	Natural	LQ 1216	
	2	3/0	1 x 75 cm	Natural	LQ 1217	
DS 19 	1.5	4/0	1 x 45 cm	Natural	LQ 0216	
	1	5/0	1 x 75 cm	Natural	LQ 0210	
	1.5	4/0	1 x 75 cm	Natural	LQ 1226	
DS 25 	2	3/0	1 x 75 cm	Natural	LQ 0224	
	3	2/0	1 x 75 cm	Natural	LQ 0225	
	3	2/0	1 x 90 cm	Natural	LQ 0239	
DS 30 	2	3/0	1 x 75 cm	Natural	LQ 0234	
	3	2/0	1 x 75 cm	Natural	LQ 0235	
	3	2/0	1 x 90 cm	Natural	LQ 0239	
<b>DSC: 3/8 circle, conventional cutting needle</b>						
DSC 22 	2	3/0	1 x 45 cm	Natural	LQ 8227	
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
DSM 12 	1	5/0	1 x 45 cm	Natural	LQ 0202	Advanced cutting needle
	1.5	4/0	1 x 45 cm	Natural	LQ 1203	
DSM 15 	1	5/0	1 x 45 cm	Natural	LQ 0206	Advanced cutting needle
	1.5	4/0	1 x 45 cm	Natural	LQ 0207	
DSM 19 	1.5	4/0	1 x 75 cm	Natural	LQ 0212	Advanced cutting needle
	2	3/0	1 x 75 cm	Natural	LQ 0213	
DSM 25 	2	3/0	1 x 75 cm	Natural	LQ 0221	Advanced cutting needle
<b>GS: Straight, reverse cutting needle</b>						
GS 60 	2	3/0	1 x 75 cm	Natural	LQ 0236	
	3	2/0	1 x 75 cm	Natural	LQ 0237	



Chirlac

**Chirlac rapid  
braided**

Chirlac rapid

Chirlac

Chirlac rapid



## CHIRLAC rapid braided

CHIRLAC rapid braided is a short-term absorbable, coated, synthetic, multifilament suture made of low molecular weight polyglycolic acid. The substances contained in the coating and suture are nonantigenic and noncollagenous. Chirlac rapid braided is available in violet and natural.

Progressive loss of tensile strength and absorption of Chirlac rapid braided occurs by hydrolysis, where the polymer degrades to glycolic acid, which is subsequently absorbed and metabolised by the body.

Absorption begins as a loss of tensile strength without appreciable loss of mass. The product elicits a minimal acute inflammatory reaction in tissues.



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**Indication:** Gynaecology, Ophthalmic (e.g. conjunctiva), Odontology (e.g. oral mucosa), Paediatric and Skin Closure (e.g. intracutaneous, subcutaneous).

**Contraindication:** Chirlac rapid braided should not be used in tissues subject to expansion, stretching or distension, or which might require long-term mechanical support longer than seven days. The suture is not for use in cardiovascular or neurological tissues.

**Sizes:** 6/0 to 4 USP

**Structure:** Multifilament

**Absorption method:** Hydrolysis

**Strength Retention Profile:**

SHORT-TERM HEALING (12 days)	
1 Day	100%
5 Days	60%
10-14 Days	0%

**Mass Absorption profile:** 42 days



# CHIRLAC rapid braided violet ligatures

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## Pre-cut threads

EP	USP	Length	Cat. No
1	5/0	3 x 45 cm	PR 0012
1.5	4/0	3 x 45 cm	PR 0013
2	3/0	3 x 45 cm	PR 0014
3	2/0	3 x 45 cm	PR 0015
3.5	0	3 x 45 cm	PR 0016
4	1	3 x 45 cm	PR 0017
5	2	3 x 45 cm	PR 0018
1	5/0	<b>6 x 45 cm</b>	PR 0042
1.5	4/0	6 x 45 cm	PR 0043
2	3/0	6 x 45 cm	PR 0044
3	2/0	6 x 45 cm	PR 0045
3.5	0	6 x 45 cm	PR 0046
4	1	6 x 45 cm	PR 0047
5	2	6 x 45 cm	PR 0048
1	5/0	<b>2 x 75 cm</b>	PR 0022
1.5	4/0	2 x 75 cm	PR 0023
2	3/0	2 x 75 cm	PR 0024
3	2/0	2 x 75 cm	PR 0025
3.5	0	2 x 75 cm	PR 0026
4	1	2 x 75 cm	PR 0027
5	2	2 x 75 cm	PR 0028
3.5	0	<b>2 x 90 cm</b>	PR 0097
2	3/0	<b>1 x 150 cm</b>	PR 0084
3	2/0	1 x 150 cm	PR 0085
3.5	0	1 x 150 cm	PR 0086

## Chirapack - 20 pcs./box

EP	USP	Length	Cat. No
1.5	4/0	1 x 300 cm	PR 0003
2	3/0	1 x 300 cm	PR 0004
3	2/0	1 x 300 cm	PR 0005
3.5	0	1 x 300 cm	PR 0006
4	1	1 x 300 cm	PR 0007
5	2	1 x 300 cm	PR 0008

## CHIRLAC rapid braided








Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 13 	1 1.5	5/0 4/0	1 x 75 cm 1 x 75 cm	Violet Violet	PR 0254 PR 0255	
HR 17 	1.5	4/0	1 x 75 cm	Violet	PR 0258	
HR 18 	1 1.5 2	5/0 4/0 3/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	PR 0259 PR 0256 PR 0257	
HR 22 	1.5 2 3	4/0 3/0 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	PR 0261 PR 0262 PR 0263	
HR 27 	1.5 2 3 3.5	4/0 3/0 2/0 0	1 x 75 cm 1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet Violet	PR 0265 PR 0266 PR 0267 PR 0268	
HR 30 	3.5	0	1 x 90 cm	Violet	PR 0168	
HR 35 	2 3 3.5	3/0 2/0 0	1 x 75 cm 1 x 75 cm 1 x 90 cm	Violet Violet Violet	PR 0270 PR 0271 PR 0372	
HR 40 	3 3.5 4 3 3.5 4 3	2/0 0 1 2/0 0 1 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm 1 x 90 cm 1 x 90 cm 1 x 90 cm 1 x 120 cm	Violet Violet Violet Violet Violet Violet Violet	PR 0275 PR 0276 PR 0277 PR 0375 PR 0376 PR 0377 PR 1375	
HR 48 	3.5	0	1 x 90 cm	Violet	PR 0294	
HR 50 	3.5	0	1 x 120 cm	Violet	PR 1293	
HR 60 	3.5	0	1 x 120 cm	Violet	PR 1281	










# CHIRLAC rapid braided

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Absorbable - Chirlac rapid braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 27 	4	1	1 x 75 cm	Violet	PR 0432	
HRX 35 	3 3.5 4	2/0 0 1	1 x 90 cm 1 x 90 cm 1 x 90 cm	Violet Violet Violet	PR 0380 PR 0381 PR 0382	
HRX 40 	3.5 4 5	0 1 2	1 x 90 cm 1 x 90 cm 1 x 90 cm	Violet Violet Violet	PR 0385 PR 0386 PR 0387	
	4	1	1 x 120 cm	Violet	PR 0384	
HRX 45 	4	1	1 x 90 cm	Violet	PR 0390	
HRX 50 	4 5	1 2	1 x 90 cm 1 x 90 cm	Violet Violet	PR 0395 PR 0396	
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 25 	3	2/0	1 x 75 cm	Violet	PR 0584	
	3.5	0	1 x 75 cm	Violet	PR 0593	
HRT 37 	3 3.5 4	2/0 0 1	1 x 90 cm 1 x 90 cm 1 x 90 cm	Violet Violet Violet	PR 0597 PR 0598 PR 0599	
	3 3.5	2/0 0	1 x 120 cm 1 x 120 cm	Violet Violet	PR 0697 PR 0698	

## CHIRLAC rapid braided







Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRTX: ½ circle, round body needle - tapercut, extra strong</b>						
HRTX 50 	4	1	1 x 120 cm	Violet	PR 0729	
<b>HS: ½ circle, reverse cutting needle</b>						
HS 18 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Violet Violet	PR 0423 PR 0424	
HS 21 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Violet Violet	PR 0300 PR 0301	
HS 37 	4	1	1 x 90 cm	Violet	PR 0316	
HS 40 	4 5	1 2	1 x 75 cm 1 x 75 cm	Violet Violet	PR 0457 PR 0458	
HS 48 	3.5	0	1 x 75 cm	Violet	PR 0466	
HS 55 	4 5	1 2	1 x 75 cm 1 x 75 cm	Violet Violet	PR 0476 PR 0477	



# CHIRLAC rapid braided

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Absorbable - Chirlac rapid braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 12 	1 1.5	5/0 4/0	1 x 45 cm 1 x 45 cm	Violet Violet	PR 0202 PR 0203	
DS 15 	1.5 2	4/0 3/0	1 x 45 cm 1 x 45 cm	Violet Violet	PR 0206 PR 0207	
	1	5/0	1 x 75 cm	Violet	PR 0228	
DS 19 	1 1.5 2 3	5/0 4/0 3/0 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet Violet	PR 0210 PR 0211 PR 0212 PR 0213	
DS 25 	1.5 2 3	4/0 3/0 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	PR 0223 PR 0224 PR 0225	
DS 30 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	PR 0234 PR 0235	
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
DSM 19 	1	5/0	1 x 75 cm	Violet	PR 0185	Advanced cutting needle



## CHIRLAC rapid braided natural ligatures

Pre-cut threads







EP	USP	Length	Cat. No
1	5/0	3 x 45 cm	PQ 0012
1.5	4/0	3 x 45 cm	PQ 0013
2	3/0	3 x 45 cm	PQ 0014
3	2/0	3 x 45 cm	PQ 0015
3.5	0	3 x 45 cm	PQ 0016
1.5	4/0	<b>6 x 45 cm</b>	PQ 0043
2	3/0	6 x 45 cm	PQ 0044
3	2/0	6 x 45 cm	PQ 0045
3.5	0	6 x 45 cm	PQ 0046



Chirapack - 20 pcs./box

EP	USP	Length	Cat. No
1.5	4/0	1 x 300 cm	PQ 0003
2	3/0	1 x 300 cm	PQ 0004
3	2/0	1 x 300 cm	PQ 0005
3.5	0	1 x 300 cm	PQ 0006
4	1	1 x 300 cm	PQ 0007

## CHIRLAC rapid









Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
 HR 13	1	5/0	1 x 45 cm	Natural	PQ 0252	
	1.5	4/0	1 x 45 cm	Natural	PQ 0253	
 HR 18	1	5/0	1 x 75 cm	Natural	PQ 0255	
	1.5	4/0	1 x 75 cm	Natural	PQ 0256	
	2	3/0	1 x 75 cm	Natural	PQ 0257	
 HR 22	1.5	4/0	1 x 75 cm	Natural	PQ 0261	
	2	3/0	1 x 75 cm	Natural	PQ 0262	
	3	2/0	1 x 75 cm	Natural	PQ 0263	
	3.5	0	1 x 75 cm	Natural	PQ 0264	
 HR 27	2	3/0	1 x 75 cm	Natural	PQ 0266	
 HR 40	3.5	0	1 x 75 cm	Natural	PQ 0276	
	3	2/0	1 x 90 cm	Natural	PQ 0375	
	3.5	0	1 x 90 cm	Natural	PQ 0376	
 HR 50	3.5	0	1 x 90 cm	Natural	PQ 1392	









# CHIRLAC rapid braided

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Absorbable - Chirlac rapid braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 36 	3	2/0	1 x 90 cm	Natural	PQ 0383	
HRX 40 	3.5	0	1 x 90 cm	Natural	PQ 0385	
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 37 	3	2/0	1 x 90 cm	Natural	PQ 0597	
	3 3.5	2/0 0	1 x 120 cm 1 x 120 cm	Natural Natural	PQ 0697 PQ 0698	
HRT 48 	3.5	0	1 x 75 cm	Natural	PQ 0619	
<b>HRTX: ½ circle, round body needle - tapercut, extra strong</b>						
HRTX 38 	3.5	0	1 x 75 cm	Natural	PQ 0620	
<b>HRF: ½ circle, flattened body needle, taper point</b>						
HRF 17 	1.5	4/0	1 x 75 cm	Natural	PQ 9256	
HRF 31 	3	2/0	1 x 75 cm	Natural	PQ 9269	
<b>HS: ½ circle, reverse cutting needle</b>						
HS 21 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Natural Natural	PQ 0300 PQ 0301	

## CHIRLAC rapid braided



Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 12 	1	5/0	1 x 45 cm	Natural	PQ 0203	
	1	5/0	1 x 75 cm	Natural	PQ 0204	
DS 15 	1.5	4/0	1 x 75 cm	Natural	PQ 1216	
	2	3/0	1 x 75 cm	Natural	PQ 1217	
DS 19 	1	5/0	1 x 45 cm	Natural	PQ 0215	
	1.5	4/0	1 x 45 cm	Natural	PQ 0216	
	2	3/0	1 x 45 cm	Natural	PQ 0217	
	1.5	4/0	1 x 75 cm	Natural	PQ 1226	
DS 25 	2	3/0	1 x 75 cm	Natural	PQ 0224	
	3	2/0	1 x 75 cm	Natural	PQ 0225	
DS 30 	2	3/0	1 x 75 cm	Natural	PQ 0234	
	3	2/0	1 x 75 cm	Natural	PQ 0235	
	3	2/0	1 x 90 cm	Natural	PQ 0239	
<b>DSC: 3/8 circle, conventional cutting needle</b>						
DSC 22 	2	3/0	1 x 45 cm	Natural	PQ 8227	



# CHIRLAC rapid braided

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Absorbable - Chirlac rapid braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
DSM 12	1 1.5	5/0 4/0	1 x 45 cm 1 x 45 cm	Natural Natural	PQ 0202 PQ 1203	Advanced cutting needle
	1	5/0	1 x 75 cm	Natural	PQ 0198	
DSM 15	1 1.5	5/0 4/0	1 x 45 cm 1 x 45 cm	Natural Natural	PQ 0206 PQ 0207	Advanced cutting needle
DSM 19	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Natural Natural	PQ 0212 PQ 0213	Advanced cutting needle
DSM 25	2	3/0	1 x 75 cm	Natural	PQ 0221	Advanced cutting needle
<b>GS: Straight, reverse cutting needle</b>						
GS 60	3	2/0	1 x 75 cm	Natural	PQ 0237	
						

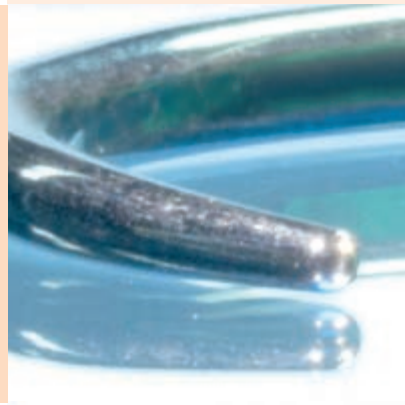
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Monolac  
monofilament

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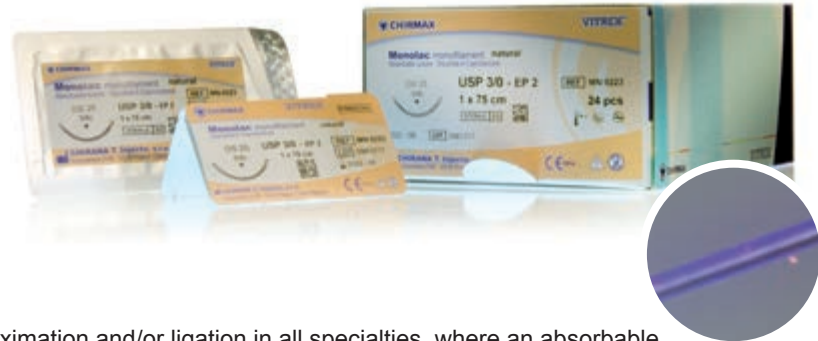


## MONOLAC monofilament

MONOLAC monofilament is a mid-term absorbable, synthetic suture made of glycolide and  $\epsilon$ -Caprolactone, available in natural colour for the closure of superficial wounds and in violet for all other indications, when a mid-term monofilament is needed.

During absorption the material elicited only a very slight inflammation.

The material is degraded into adipic acid, which is completely metabolised in the body. The process begins with a loss of tensile strength, followed by a loss of mass at a later stage.



**Indication:** General soft tissue approximation and/or ligation in all specialties, where an absorbable material is indicated.

**Contraindication:** Monolac monofilament should not be used in tissues subject to expansion, stretching or distension, or which might require long-term mechanical support.

**Sizes:** 6/0 to 2 USP

**Structure:** Monofilament

**Absorption method:** Hydrolysis

### Strength Retention

Profile:		MID-TERM HEALING (30 days)
1 Day	100%	
7 Days	60% violet/50% natural	
14 Days	30% violet/20% natural	

**Mass Absorption profile:** 90 - 120 days

# MONOLAC monofilament violet ligatures










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Pre-cut threads








EP	USP	Length	Cat. No
3	2/0	1 x 150 cm	MV 0085
3.5	0	1 x 150 cm	MV 0086



## MONOLAC monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
 HR 13	0.7	6/0	1 x 75 cm	Violet	MV 0251	
	1	5/0	1 x 75 cm	Violet	MV 0252	
	1.5	4/0	1 x 75 cm	Violet	MV 0253	
 HR 17	1.5	4/0	1 x 75 cm	Violet	MV 0254	
 HR 18	1	5/0	1 x 75 cm	Violet	MV 0256	
	1.5	4/0	1 x 75 cm	Violet	MV 0257	
	2	3/0	1 x 75 cm	Violet	MV 0258	
 HR 22	1.5	4/0	1 x 75 cm	Violet	MV 0261	
	2	3/0	1 x 75 cm	Violet	MV 0262	
	3	2/0	1 x 75 cm	Violet	MV 0263	
 2 x HR 22	3	2/0	1 x 45 cm	Violet	MV 0963	
	1.5	4/0	1 x 75 cm	Violet	MV 0965	
	2	3/0	1 x 90 cm	Violet	MV 0964	
 HR 26	2	3/0	1 x 75 cm	Violet	MV 0166	
	3	2/0	1 x 75 cm	Violet	MV 0167	
 HR 27	1	5/0	1 x 75 cm	Violet	MV 0264	
	1.5	4/0	1 x 75 cm	Violet	MV 0265	
	2	3/0	1 x 75 cm	Violet	MV 0266	
	3	2/0	1 x 75 cm	Violet	MV 0267	
 2 x HR 27	2	3/0	1 x 75 cm	Violet	MV 2266	
	1.5	4/0	1 x 90 cm	Violet	MV 2275	
 HR 30	2	3/0	1 x 75 cm	Violet	MV 0269	
	3	2/0	1 x 75 cm	Violet	MV 0273	
	3.5	0	1 x 75 cm	Violet	MV 0274	

## MONOLAC monofilament









Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
2 x HR 30 	3	2/0	1 x 90 cm	Violet	MV 1373	
HR 35 	3	2/0	1 x 75 cm	Violet	MV 0271	
	3.5	0	1 x 75 cm	Violet	MV 0272	
	2	3/0	1 x 90 cm	Violet	MV 0373	
	4	1	1 x 90 cm	Violet	MV 0376	
HR 40 	3.5	0	1 x 75 cm	Violet	MV 0276	
	4	1	1 x 75 cm	Violet	MV 0277	
	2	3/0	1 x 90 cm	Violet	MV 0377	
	4	1	1 x 90 cm	Violet	MV 0397	
	5	2	1 x 90 cm	Violet	MV 0398	
<b>HR s: ½ circle, round body needle - slim</b>						
HR s 18 	1.5	4/0	1 x 75 cm	Violet	MV 1256	Slim needle
HR s 22 	1.5	4/0	1 x 75 cm	Violet	MV 1261	Slim needle
	2	3/0	1 x 75 cm	Violet	MV 1262	
HR s 22 Black 	2	3/0	1 x 75 cm	Violet	MV 2262	Slim, black needle
HR s 27 	3	2/0	1 x 75 cm	Violet	MV 1267	Slim needle














# MONOLAC monofilament

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Absorbable - Monolac monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 35 	3	2/0	1 x 75 cm	Violet	MV 0280	
	3 3.5	2/0 0	1 x 90 cm 1 x 90 cm	Violet Violet	MV 0380 MV 0381	
HRX 40 	4	1	1 x 75 cm	Violet	MV 0286	
	4	1	1 x 90 cm	Violet	MV 0386	
	4	1	1 x 150 cm	Violet	MV 4530	Loop
HRX 45 	4	1	1 x 90 cm	Violet	MV 0390	
HRX 50 	3.5 4	0 1	1 x 90 cm 1 x 90 cm	Violet Violet	MV 0394 MV 0395	
	4	1	1 x 150 cm	Violet	MV 4540	Loop
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 17 	1.5	4/0	1 x 75 cm	Violet	MV 0561	
HRT 25 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	MV 0581 MV 0582	
HRT 37 	4	1	1 x 90 cm	Violet	MV 1594	
<b>HRN: ½ circle, round body needle - blunt point</b>						
HRN 50 	4	1	1 x 90 cm	Violet	MV 0686	

# MONOLAC monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRF: ½ circle, flattened body needle, taper point</b>						
HRF 17 	1.5	4/0	1 x 75 cm	Violet	MV 9257	
HRF 22 	2	3/0	1 x 75 cm	Violet	MV 9262	
<b>DR: 3/8 circle, round body needle</b>						
DR 8 	0.7	6/0	1 x 45 cm	Violet	MV 0703	
DR 20 	2	3/0	1 x 75 cm	Violet	MV 0726	
<b>DRT: 3/8 circle, round body needle - tapercut</b>						
DRT 13 	0.7	6/0	1 x 45 cm	Violet	MV 0544	
<b>FR: 5/8 circle, round body needle</b>						
FR 27 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	MV 0609 MV 0610	
<b>GR: Straight, round body needle</b>						
GR 20 	1 1.5 2	5/0 4/0 3/0	1 x 45 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	MV 0405 MV 0406 MV 0407	
<b>HS: ½ circle, reverse cutting needle</b>						
HS 12 	0.7 1	6/0 5/0	1 x 45 cm 1 x 45 cm	Violet Violet	MV 0301 MV 0302	
HS 18 	1 1.5	5/0 4/0	1 x 75 cm 1 x 75 cm	Violet Violet	MV 0312 MV 0313	
HS 25 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Violet Violet	MV 0323 MV 0324	
2 x HS 25 	2	3/0	1 x 75 cm	Violet	MV 1619	



















# MONOLAC monofilament

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Absorbable - Monolac monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 12 	0.7	6/0	1 x 45 cm	Violet	MV 0201	
	1	5/0	1 x 45 cm	Violet	MV 0202	
DS 13 	1	5/0	1 x 75 cm	Violet	MV 0203	
DS 15 	1	5/0	1 x 45 cm	Violet	MV 0205	
	1.5	4/0	1 x 45 cm	Violet	MV 0206	
DS 16 	1.5	4/0	1 x 45 cm	Violet	MV 1206	
DS 19 	1	5/0	1 x 45 cm	Violet	MV 0214	
	1.5	4/0	1 x 45 cm	Violet	MV 0215	
	2	3/0	1 x 45 cm	Violet	MV 0216	
	1	5/0	1 x 75 cm	Violet	MV 0210	
	1.5	4/0	1 x 75 cm	Violet	MV 0211	
	2	3/0	1 x 75 cm	Violet	MV 0212	
DS 25 	2	3/0	1 x 45 cm	Violet	MV 0122	
	2	3/0	1 x 75 cm	Violet	MV 0223	
	3	2/0	1 x 75 cm	Violet	MV 0224	
DS 30 	2	3/0	1 x 75 cm	Violet	MV 0227	
	3	2/0	1 x 75 cm	Violet	MV 0228	
	3.5	0	1 x 75 cm	Violet	MV 0229	
DS 35 	4	1	1 x 75 cm	Violet	MV 1240	

## MONOLAC monofilament













Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
DSM 12 	0.7 1	6/0 5/0	1 x 45 cm 1 x 45 cm	Violet Violet	MV 0230 MV 0231	Advanced cutting needle
DSM 15 	1 1.5	5/0 4/0	1 x 45 cm 1 x 45 cm	Violet Violet	MV 0234 MV 0235	Advanced cutting needle
DSM 19 	1.5 2	4/0 3/0	1 x 45 cm 1 x 45 cm	Violet Violet	MV 0237 MV 0238	Advanced cutting needle
DSM 25 	2	3/0	1 x 75 cm	Violet	MV 0242	Advanced cutting needle
	1.5	4/0	1 x 90 cm	Violet	MV 0240	
<b>GS: Straight, reverse cutting needle</b>						
GS 50 	2	3/0	1 x 75 cm	Violet	MV 0456	
GS 60 	2	3/0	1 x 75 cm	Violet	MV 0466	
	3	2/0	1 x 75 cm	Violet	MV 0467	









# MONOLAC monofilament natural

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Absorbable - Monolac monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 13 	1	5/0	1 x 75 cm	Natural	MN 0252	
HR 18 	1 1.5	5/0 4/0	1 x 75 cm 1 x 75 cm	Natural Natural	MN 0256 MN 0257	
HR 22 	2	3/0	1 x 75 cm	Natural	MN 0262	
HR 35 	3.5	0	1 x 75 cm	Natural	MN 0275	
<b>FR: 5/8 circle, round body needle</b>						
FR 27 	3	2/0	1 x 75 cm	Natural	MN 0610	
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 12 	0.7 1	6/0 5/0	1 x 45 cm 1 x 45 cm	Natural Natural	MN 0201 MN 0202	
DS 15 	0.7 1 1.5	6/0 5/0 4/0	1 x 45 cm 1 x 45 cm 1 x 45 cm	Natural Natural Natural	MN 0204 MN 0205 MN 0206	
DS 19 	1 1.5 2	5/0 4/0 3/0	1 x 75 cm 1 x 75 cm	Natural Natural	MN 0208 MN 0209	
DS 19 	0.7 1 1.5 2	6/0 5/0 4/0 3/0	1 x 45 cm 1 x 45 cm 1 x 45 cm 1 x 45 cm	Natural Natural Natural Natural	MN 0213 MN 0214 MN 0215 MN 0216	
DS 25 	1.5 2 3	4/0 3/0 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Natural Natural Natural	MN 0211 MN 0212	
DS 25 	1.5 2 3	4/0 3/0 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Natural Natural Natural	MN 0222 MN 0223 MN 0224	
DS 30 	2	3/0	1 x 75 cm	Natural	MN 0227	

# MONOLAC monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
DSM 12 	0.7	6/0	1 x 45 cm	Natural	MN 0230	Advanced cutting needle
	1	5/0	1 x 45 cm	Natural	MN 0231	
	1.5	4/0	1 x 45 cm	Natural	MN 0232	
DSM 15 	1	5/0	1 x 45 cm	Natural	MN 0234	Advanced cutting needle
	1.5	4/0	1 x 45 cm	Natural	MN 0235	
DSM 19 	1.5	4/0	1 x 45 cm	Natural	MN 0237	Advanced cutting needle
	2	3/0	1 x 45 cm	Natural	MN 0238	
	1.5	4/0	1 x 75 cm	Natural	MN 0240	
DSM 25 	2	3/0	1 x 75 cm	Natural	MN 0248	Advanced cutting needle
	3	2/0	1 x 75 cm	Natural	MN 0249	
<b>GS: Straight, reverse cutting needle</b>						
GS 50 	2	3/0	1 x 75 cm	Natural	MN 0456	
GS 60 	1.5	4/0	1 x 75 cm	Natural	MN 0465	
	2	3/0	1 x 75 cm	Natural	MN 0466	



chirasorb

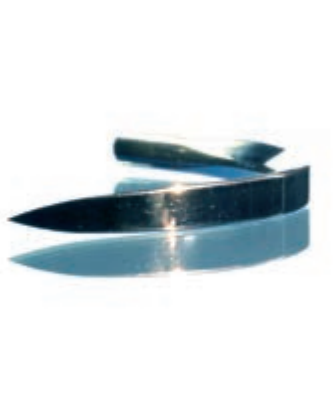
**Chirasorb  
braided**

Chirasorb

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## CHIRASORB braided

CHIRASORB braided is a mid-term absorbable, coated, synthetic, multifilament suture made of 90% glycolide and 10% L-lactide. The substances contained in the coating and suture are nonantigenic and noncollagenous.

Sterile Chirasorb braided is available in violet or natural. The product elicits a minimal acute inflammatory reaction in tissues.

Progressive loss of tensile strength and absorption of Chirasorb braided occurs by hydrolysis, when the polymer is degraded to glycolic and lactic acids, which are subsequently absorbed and metabolised by the body.



**Indication:** General soft tissue approximation and/or ligation in all specialties, including use in Ophthalmic surgery.

**Contraindication:** Chirasorb braided should not be used in tissues subject to expansion, stretching or distension, or which might require long-term mechanical support.

**Sizes:** 10/0 to 6 USP

**Structure:** Multifilament

**Absorption method:** Hydrolysis

### Strength Retention

**Profile:** MID-TERM HEALING (35 days)

1 Day 100%

14 Days 75%

21 Days 50%

### Mass Absorption

**profile:** 56 - 70 days



# CHIRASORB braided violet ligatures



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## Pre-cut threads

EP	USP	Length	Cat. No
1	5/0	3 x 45 cm	LV 0012
1.5	4/0	3 x 45 cm	LV 0013
2	3/0	3 x 45 cm	LV 0014
3	2/0	3 x 45 cm	LV 0015
3.5	0	3 x 45 cm	LV 0016
4	1	3 x 45 cm	LV 0017
5	2	3 x 45 cm	LV 0018
1	5/0	<b>6 x 45 cm</b>	LV 0042
1.5	4/0	6 x 45 cm	LV 0043
2	3/0	6 x 45 cm	LV 0044
3	2/0	6 x 45 cm	LV 0045
3.5	0	6 x 45 cm	LV 0046
4	1	6 x 45 cm	LV 0047
5	2	6 x 45 cm	LV 0048
2	3/0	<b>10 x 45 cm</b>	LV 0064
3	2/0	10 x 45 cm	LV 0065
3.5	0	10 x 45 cm	LV 0066
4	1	10 x 45 cm	LV 0067
5	2	10 x 45 cm	LV 0068
3	2/0	<b>12 x 45 cm</b>	LV 4565
5	2	12 x 45 cm	LV 4568
1	5/0	<b>2 x 75 cm</b>	LV 0022
1.5	4/0	2 x 75 cm	LV 0023
2	3/0	2 x 75 cm	LV 0024
3	2/0	2 x 75 cm	LV 0025
3.5	0	2 x 75 cm	LV 0026
4	1	2 x 75 cm	LV 0027
5	2	2 x 75 cm	LV 0028
1.5	4/0	<b>5 x 75 cm</b>	LV 0053
2	3/0	5 x 75 cm	LV 0054
3	2/0	5 x 75 cm	LV 0055







## Pre-cut threads

EP	USP	Length	Cat. No
3.5	0	5 x 75 cm	LV 0056
4	1	5 x 75 cm	LV 0057
5	2	5 x 75 cm	LV 0058
2	3/0	<b>6 x 75 cm</b>	LV 0059
3	2/0	6 x 75 cm	LV 0051
3.5	0	6 x 75 cm	LV 0060
4	1	6 x 75 cm	LV 4557
1.5	4/0	<b>1 x 150 cm</b>	LV 0083
2	3/0	1 x 150 cm	LV 0084
3	2/0	1 x 150 cm	LV 0085
3.5	0	1 x 150 cm	LV 0089
4	1	1 x 150 cm	LV 0087
5	2	1 x 150 cm	LV 0090

## Chirapack - 20 pcs./box

EP	USP	Length	Cat. No
2	3/0	1 x 250 cm	LV 1004
3	2/0	1 x 250 cm	LV 1005
3.5	0	1 x 250 cm	LV 1006
4	1	1 x 250 cm	LV 1007
5	2	1 x 250 cm	LV 1008
1.5	4/0	<b>1 x 300 cm</b>	LV 0003
2	3/0	1 x 300 cm	LV 0004
3	2/0	1 x 300 cm	LV 0005
3.5	0	1 x 300 cm	LV 0006
4	1	1 x 300 cm	LV 0007
5	2	1 x 300 cm	LV 0008
6	3 + 4	1 x 300 cm	LV 0009

## CHIRASORB braided







Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 10 	0.7	6/0	1 x 45 cm	Violet	LV 0246	
	1	5/0	1 x 75 cm	Violet	LV 0248	
HR 13 	0.7	6/0	1 x 45 cm	Violet	LV 0251	
	1	5/0	1 x 45 cm	Violet	LV 0252	
	1.5	4/0	1 x 45 cm	Violet	LV 0253	
	2	3/0	1 x 45 cm	Violet	LV 0250	
	0.7	6/0	1 x 75 cm	Violet	LV 1251	
	1	5/0	1 x 75 cm	Violet	LV 0254	
	1.5	4/0	1 x 75 cm	Violet	LV 0255	
HR 16 	1	5/0	1 x 75 cm	Violet	LV 3265	
HR 18 	1.5	4/0	1 x 45 cm	Violet	LV 0258	
	2	3/0	1 x 45 cm	Violet	LV 0259	
	0.7	6/0	1 x 75 cm	Violet	LV 0241	
	1	5/0	1 x 75 cm	Violet	LV 0242	
	1.5	4/0	1 x 75 cm	Violet	LV 0256	
	2	3/0	1 x 75 cm	Violet	LV 0257	
	3	2/0	1 x 75 cm	Violet	LV 0260	
HR 20 	1.5	4/0	1 x 75 cm	Violet	LV 1261	
	2	3/0	1 x 75 cm	Violet	LV 1259	
HR 22 	1.5	4/0	6 x 45 cm	Violet	LV 0526	
	2	3/0	6 x 45 cm	Violet	LV 0527	
	1.5	4/0	1 x 75 cm	Violet	LV 0261	
	2	3/0	1 x 75 cm	Violet	LV 0262	
	3	2/0	1 x 75 cm	Violet	LV 0263	
	2	3/0	4 x 75 cm	Violet	LV 0322	
	3	2/0	4 x 75 cm	Violet	LV 0323	
	2	3/0	1 x 120 cm	Violet	LV 0363	







# CHIRASORB braided

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Absorbable - Chirasorb braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 22 A 	2	3/0	6 x 45 cm	Violet	LV 0327	Take-off needle
HR 25 	5	2	1 x 75 cm	Violet	LV 0297	
HR 26 	3	2/0	1 x 45 cm	Violet	LV 0136	
	2	3/0	1 x 75 cm	Violet	LV 0535	
	3	2/0	1 x 75 cm	Violet	LV 0536	
	3.5	0	1 x 75 cm	Violet	LV 0540	
HR 26 A 	2	3/0	6 x 45 cm	Violet	LV 0347	Take-off needle
	1.5	4/0	1 x 45 cm	Violet	LV 0245	
	2 3	3/0 2/0	6 x 45 cm 6 x 45 cm	Violet Violet	LV 0537 LV 0538	
HR 27 	1.5	4/0	1 x 75 cm	Violet	LV 0265	
	2	3/0	1 x 75 cm	Violet	LV 0266	
	3	2/0	1 x 75 cm	Violet	LV 0267	
	3.5	0	1 x 75 cm	Violet	LV 0268	
	4	1	1 x 75 cm	Violet	LV 1269	
	2 3	3/0 2/0	1 x 90 cm 1 x 90 cm	Violet Violet	LV 0366 LV 0367	
HR 27 A 	3	2/0	6 x 45 cm	Violet	LV 0338	Take-off needle
	2	3/0	4 x 75 cm	Violet	LV 0639	Take-off needle

## CHIRASORB braided





Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
2 x HR 27 	2	3/0	1 x 90 cm	Violet	LV 2466	
	3	2/0	1 x 90 cm	Violet	LV 2467	
	2	3/0	1 x 45 cm	Violet	LV 0169	
HR 30 	2	3/0	1 x 75 cm	Violet	LV 0269	
	3	2/0	1 x 75 cm	Violet	LV 0273	
	3.5	0	1 x 75 cm	Violet	LV 0274	
	4	1	1 x 75 cm	Violet	LV 1275	
	2	3/0	1 x 90 cm	Violet	LV 0369	
	3	2/0	1 x 90 cm	Violet	LV 0364	
	3.5	0	1 x 90 cm	Violet	LV 0371	
	4	1	1 x 90 cm	Violet	LV 0372	
HR 35 	2	3/0	1 x 75 cm	Violet	LV 0270	
	3	2/0	1 x 75 cm	Violet	LV 0271	
	3.5	0	1 x 75 cm	Violet	LV 0272	
	4	1	1 x 75 cm	Violet	LV 1273	
	5	2	1 x 75 cm	Violet	LV 1272	
	2	3/0	1 x 90 cm	Violet	LV 0373	
	3	2/0	1 x 90 cm	Violet	LV 0374	
	3.5	0	1 x 90 cm	Violet	LV 0375	
	4	1	1 x 90 cm	Violet	LV 0376	
HR 37 	3.5	0	1 x 75 cm	Violet	LV 0579	
	4	1	1 x 75 cm	Violet	LV 0379	
	3.5	0	1 x 90 cm	Violet	LV 0378	











# CHIRASORB braided

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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
 <p>HR 40</p>	4	1	1 x 45 cm	Violet	LV 0177	
	5	2	5 x 45 cm	Violet	LV 2250	
	3	2/0	1 x 75 cm	Violet	LV 0275	
	3.5	0	1 x 75 cm	Violet	LV 0276	
	4	1	1 x 75 cm	Violet	LV 0277	
 <p>HR 43</p>	3	2/0	1 x 90 cm	Violet	LV 1475	
	3.5	0	1 x 90 cm	Violet	LV 1476	
	4	1	1 x 90 cm	Violet	LV 1477	
	5	2	1 x 90 cm	Violet	LV 1478	
	3	2/0	1 x 120 cm	Violet	LV 1479	
 <p>HR 48</p>	5	2	1 x 75 cm	Violet	LV 0479	
	4	1	1 x 75 cm	Violet	LV 1396	
	3.5	0	1 x 75 cm	Violet	LV 1400	
 <p>HR 48 A</p>	3.5	0	1 x 90 cm	Violet	LV 1402	
	4	1	1 x 90 cm	Violet	LV 1403	
	5	2	1 x 90 cm	Violet	LV 1401	
4	1	4 x 45 cm	Violet	LV 1399		
	4	1	4 x 45 cm	Violet	LV 0793	Take-off needle

Absorbable - Chirasorb braided


## CHIRASORB braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 50 	5	2	5 x 45 cm	Violet	LV 1201	
	3.5	0	1 x 90 cm	Violet	LV 1392	
HR 60 	3 3.5	2/0 0	1 x 75 cm 1 x 75 cm	Violet Violet	LV 0278 LV 0279	
HR 65 	3 4 5	2/0 1 2	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	LV 1283 LV 1285 LV 1286	
	5	2	1 x 150 cm	Violet	LV 1287	
HR 75 	5	2	1 x 75 cm	Violet	LV 0496	
<b>HR s: ½ circle, round body needle - slim</b>						
HR s 18 	1.5	4/0	1 x 75 cm	Violet	LV 1256	Slim needle
HR s 27 Black 	3	2/0	1 x 75 cm	Violet	LV 2267	Slim, black needle



## CHIRASORB braided

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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 22 	2	3/0	1 x 75 cm	Violet	LV 0420	
HRX 26 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	LV 0419 LV 0417	
HRX 27 	2 3 4	3/0 2/0 1	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	LV 0429 LV 0430 LV 0432	
HRX 30 	2	3/0	1 x 75 cm	Violet	LV 0426	
HRX 35 	3 4	2/0 1	1 x 75 cm 1 x 75 cm	Violet Violet	LV 0280 LV 0282	
	3.5	0	1 x 90 cm	Violet	LV 0381	

Absorbable - Chirasorb braided



**Chirasorb**

## CHIRASORB braided





Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 36 	3.5	0	1 x 75 cm	Violet	LV 1281	
	4	1	1 x 75 cm	Violet	LV 1282	
	3	2/0	1 x 90 cm	Violet	LV 1380	
HRX 40 	3.5	0	1 x 75 cm	Violet	LV 0285	
	4	1	1 x 75 cm	Violet	LV 0286	
	3.5	0	1 x 90 cm	Violet	LV 0385	
	4	1	1 x 90 cm	Violet	LV 0386	
	5	2	1 x 90 cm	Violet	LV 0387	
	3.5	0	1 x 150 cm	Violet	LV 4035	Loop
	4	1	1 x 150 cm	Violet	LV 4040	Loop
HRX 45 	4	1	1 x 90 cm	Violet	LV 0390	
	5	2	1 x 90 cm	Violet	LV 0391	
HRX 50 	3.5	0	1 x 75 cm	Violet	LV 0294	
	4	1	1 x 75 cm	Violet	LV 0295	
	5	2	1 x 75 cm	Violet	LV 0296	
	4	1	1 x 90 cm	Violet	LV 0395	
	5	2	1 x 90 cm	Violet	LV 0396	
	5	2	1 x 110 cm	Violet	LV 0393	











# CHIRASORB braided

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Absorbable - Chirasorb braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 17 	1.5	4/0	1 x 45 cm	Violet	LV 0566	
	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Violet Violet	LV 0561 LV 0562	
HRT 20 	1	5/0	1 x 45 cm	Violet	LV 0568	
HRT 22 	2	3/0	1 x 75 cm	Violet	LV 0572	
HRT 25 	2	3/0	1 x 75 cm	Violet	LV 0581	
HRT 31 	3	2/0	1 x 75 cm	Violet	LV 0606	
HRT 37 	3 3.5	2/0 0	1 x 75 cm 1 x 75 cm	Violet Violet	LV 0592 LV 0593	
	3 3.5 4	2/0 0 1	1 x 90 cm 1 x 90 cm 1 x 90 cm	Violet Violet Violet	LV 0597 LV 0598 LV 0599	
HRT 40 	3.5	0	1 x 75 cm	Violet	LV 0653	
HRT 45 	5	2	1 x 75 cm	Violet	LV 0665	
<b>HRN: ½ circle, round body needle - blunt point</b>						
HRN 50 	4 5	1 2	1 x 90 cm 1 x 90 cm	Violet Violet	LV 0686 LV 0675	

## CHIRASORB braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRF: ½ circle, flattened body needle, taper point</b>						
HRF 17 	1 1.5	5/0 4/0	1 x 75 cm 1 x 75 cm	Violet Violet	LV 9242 LV 9256	
HRF 20 	1.5	4/0	1 x 75 cm	Violet	LV 9261	
HRF 26 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	LV 9266 LV 9267	
HRF 31 	3	2/0	1 x 75 cm	Violet	LV 9273	
<b>DR: 3/8 circle, round body needle</b>						
DR 15 	1.5	4/0	1 x 75 cm	Violet	LV 0724	
DR 21 	3	2/0	1 x 75 cm	Violet	LV 0744	
DR 30 	2	3/0	1 x 75 cm	Violet	LV 0746	
<b>DRN: 3/8 circle, round body needle - blunt point</b>						
DRN 60 	4	1	1 x 100 cm	Violet	LV 0699	





















# CHIRASORB braided

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Absorbable - Chirasorb braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>FR: 5/8 circle, round body needle</b>						
FR 27	2	3/0	1 x 75 cm	Violet	LV 0609	
	3	2/0	1 x 75 cm	Violet	LV 0610	
	3.5	0	1 x 75 cm	Violet	LV 0611	
<b>GR: Straight, round body needle</b>						
GR 20	1.5	4/0	1 x 75 cm	Violet	LV 0402	
	3	2/0	1 x 90 cm	Violet	LV 0399	
<b>KR: Ski, round body needle</b>						
KR 25	3	2/0	1 x 20 cm	Violet	LV 2736	
						
KR 27	2	3/0	1 x 40 cm	Violet	LV 4630	Loop
	4	1	1 x 120 cm	Violet	LV 2390	
<b>JRT: Hook shaped, round body needle - tapercut</b>						
JRT 30	4	1	1 x 75 cm	Violet	LV 0694	
						
<b>J-RX: Hook shaped, round body needle</b>						
J-RX 30	3	2/0	1 x 75 cm	Violet	LV 1387	
						














## CHIRASORB braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HS: ½ circle, reverse cutting needle</b>						
 HS 18	2	3/0	1 x 75 cm	Violet	LV 0424	
	3	2/0	1 x 75 cm	Violet	LV 0425	
 HS 21	1.5	4/0	1 x 75 cm	Violet	LV 0300	
	2	3/0	1 x 75 cm	Violet	LV 0301	
 HS 25	2	3/0	1 x 75 cm	Violet	LV 0441	
	3	2/0	1 x 75 cm	Violet	LV 0442	
	3.5	0	1 x 75 cm	Violet	LV 0443	
 HS 26	3.5	0	1 x 75 cm	Violet	LV 1455	
 HS 30	3	2/0	1 x 75 cm	Violet	LV 0445	
	3.5	0	1 x 75 cm	Violet	LV 0446	
	4	1	1 x 75 cm	Violet	LV 0447	
 HS 36	3	2/0	1 x 75 cm	Violet	LV 0350	
	3.5	0	1 x 75 cm	Violet	LV 0351	
 HS 37	3.5	0	1 x 75 cm	Violet	LV 1451	
	4	1	1 x 75 cm	Violet	LV 1452	
	5	2	1 x 90 cm	Violet	LV 0453	
 HS 40	3	2/0	1 x 75 cm	Violet	LV 0455	
	3.5	0	1 x 75 cm	Violet	LV 0456	
	4	1	1 x 75 cm	Violet	LV 0457	
	5	2	1 x 75 cm	Violet	LV 0458	
	3.5	0	1 x 90 cm	Violet	LV 0460	
	4	1	1 x 90 cm	Violet	LV 0461	
 HS 48	3.5	0	1 x 75 cm	Violet	LV 0466	
	4	1	1 x 90 cm	Violet	LV 0469	
	5	2	1 x 90 cm	Violet	LV 0470	






# CHIRASORB braided

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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HSX: 1/2 circle, reverse cutting needle - extra strong</b>						
HSX 26 	4 5	1 2	1 x 75 cm 1 x 75 cm	Violet Violet	LV 1456 LV 1454	
HSX 48 	3.5	0	1 x 90 cm	Violet	LV 0464	
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 10 	0.5	7/0	1 x 45 cm	Violet	LV 0193	
DS 12 	0.7 1 1.5	6/0 5/0 4/0	1 x 45 cm 1 x 45 cm 1 x 45 cm	Violet Violet Violet	LV 0201 LV 0202 LV 0203	
2 x DS 12 	1.5	4/0	1 x 45 cm	Violet	LV 1210	
DS 15 	0.7 1 1.5 2	6/0 5/0 4/0 3/0	1 x 45 cm 1 x 45 cm 1 x 45 cm 1 x 45 cm	Violet Violet Violet Violet	LV 0200 LV 0205 LV 0206 LV 0207	
DS 15 	1.5	4/0	1 x 75 cm	Violet	LV 0209	
DS 19 	1 1.5 2	5/0 4/0 3/0	1 x 45 cm 1 x 45 cm 1 x 45 cm	Violet Violet Violet	LV 0214 LV 0215 LV 0216	
DS 19 	1.5 2 3	4/0 3/0 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	LV 0211 LV 0212 LV 0213	
DS 24 	2	3/0	1 x 75 cm	Violet	LV 1225	
DS 25 	1.5 2 3	4/0 3/0 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	LV 0222 LV 0223 LV 0224	
DS 25 	2 3	3/0 2/0	1 x 90 cm 1 x 90 cm	Violet Violet	LV 2223 LV 2224	
DS 26 	2	3/0	1 x 45 cm	Violet	LV 1221	

Absorbable - Chirasorb braided

## CHIRASORB braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
 <p>DS 30</p>	3	2/0	1 x 75 cm	Violet	LV 0234	
	3.5	0	1 x 75 cm	Violet	LV 0235	
	3	2/0	1 x 90 cm	Violet	LV 1239	
	3.5	0	1 x 90 cm	Violet	LV 1235	
	4	1	1 x 90 cm	Violet	LV 1236	
<b>DSC: 3/8 circle, conventional cutting needle</b>						
 <p>DSC 16</p>	1.5	4/0	1 x 75 cm	Violet	LV 8208	
<b>GS: Straight, reverse cutting needle</b>						
 <p>GS 13</p>	1.5	4/0	1 x 45 cm	Violet	LV 1198	
<b>Minimal invasive surgery</b>						
	3	2/0	1 x 50 cm	Violet	MS 0143	Loop
	3.5	0	1 x 50 cm	Violet	MS 0144	Loop



# CHIRASORB braided natural ligatures

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## Pre-cut threads

EP	USP	Length	Cat. No
1	5/0	3 x 45 cm	LN 0012
1.5	4/0	3 x 45 cm	LN 0013
2	3/0	3 x 45 cm	LN 0014
3	2/0	3 x 45 cm	LN 0015
3.5	0	3 x 45 cm	LN 0016
2	3/0	<b>10 x 45 cm</b>	LN 0064
3	2/0	10 x 45 cm	LN 0065
1.5	4/0	<b>2 x 75 cm</b>	LN 0023
2	3/0	2 x 75 cm	LN 0024
3	2/0	2 x 75 cm	LN 0025






## Chirapack - 20 pcs./box

EP	USP	Length	Cat. No
1.5	4/0	1 x 300 cm	LN 0003
2	3/0	1 x 300 cm	LN 0004
3	2/0	1 x 300 cm	LN 0005
3.5	0	1 x 300 cm	LN 0006













Absorbable - Chirasorb braided

# CHIRASORB braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
 HR 13	1	5/0	1 x 45 cm	Natural	LN 0252	
	1.5	4/0	1 x 45 cm	Natural	LN 0253	
<hr/>						
	1.5	4/0	1 x 75 cm	Natural	LN 0153	
<hr/>						
 HR 18	1.5	4/0	1 x 75 cm	Natural	LN 0256	
	2	3/0	1 x 75 cm	Natural	LN 0257	
<hr/>						
 HR 22	2	3/0	1 x 75 cm	Natural	LN 0262	
	3	2/0	1 x 75 cm	Natural	LN 0263	
<hr/>						
 HR 27	2	3/0	1 x 75 cm	Natural	LN 0266	
<hr/>						
 HR 30	3.5	0	1 x 75 cm	Natural	LN 0274	

## CHIRASORB braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 17 	1.5	4/0	1 x 75 cm	Natural	LN 0561	
	2	3/0	1 x 75 cm	Natural	LN 0562	
HRT 22 	2	3/0	1 x 75 cm	Natural	LN 0572	
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 12 	0.7	6/0	1 x 45 cm	Natural	LN 1201	
	1	5/0	1 x 45 cm	Natural	LN 1202	
DS 15 	1.5	4/0	1 x 45 cm	Natural	LN 1206	
	2	3/0	1 x 45 cm	Natural	LN 1207	
DS 16 	1	5/0	1 x 45 cm	Natural	LN 1208	
DS 19 	1	5/0	1 x 45 cm	Natural	LN 1215	
	1.5	4/0	1 x 45 cm	Natural	LN 1216	
	2	3/0	1 x 45 cm	Natural	LN 1217	
DS 19 	1	5/0	1 x 75 cm	Natural	LN 1220	
	1.5	4/0	1 x 75 cm	Natural	LN 1211	
	2	3/0	1 x 75 cm	Natural	LN 1212	
	3	2/0	1 x 75 cm	Natural	LN 1213	
DS 25 	2	3/0	1 x 45 cm	Natural	LN 1332	
	1.5	4/0	1 x 75 cm	Natural	LN 1231	
DS 25 	2	3/0	1 x 75 cm	Natural	LN 1232	
	3	2/0	1 x 75 cm	Natural	LN 1233	
DS 30 	3	2/0	1 x 75 cm	Natural	LN 1243	
	3.5	0	1 x 75 cm	Natural	LN 1244	









# CHIRASORB braided

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Absorbable - Chirasorb braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
DSM 12 	0.7 1 1.5	6/0 5/0 4/0	1 x 45 cm 1 x 45 cm 1 x 45 cm	Natural Natural Natural	LN 0201 LN 0202 LN 0203	Advanced cutting needle
DSM 15 	1 1.5 2	5/0 4/0 3/0	1 x 45 cm 1 x 45 cm 1 x 45 cm	Natural Natural Natural	LN 0206 LN 0207 LN 0208	Advanced cutting needle
DSM 19 	1.5  1.5 2	4/0  4/0 3/0	1 x 45 cm  1 x 75 cm 1 x 75 cm	Natural  Natural Natural	LN 0216  LN 0212 LN 0213	Advanced cutting needle
DSM 25 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Natural Natural	LN 0223 LN 0224	Advanced cutting needle

Chirasorb

**Chirasorb Plus  
braided**

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Chirasorb

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# CHIRASORB Plus braided

## Antibacterial

CHIRASORB Plus braided is a mid-term absorbable, antibacterial coated, synthetic, multifilament suture made of 90% glycolide and 10% L-lactide. The braided suture is covered with antibacterial coating, which consists of copolymer glycolide and lactide, calcium stearate and chlorhexidine diacetate.

Chlorhexidine is a cationic antiseptic with a wide range of antimicrobial effects. It is effective on both Gram-positive and Gram-negative bacteria; the mechanism of action is cytoplasmic membrane disruption.

Sterile Chirasorb Plus braided is available in violet or natural. The product elicits a minimal acute inflammatory reaction in tissues.

Progressive loss of tensile strength and absorption of Chirasorb Plus braided occurs by hydrolysis, when the polymer is degraded to glycolic and lactic acids, which are subsequently absorbed and metabolised by the body.



**Indication:** General soft tissue approximation and/or ligation in all specialties.

**Contraindication:** Chirasorb Plus braided should not be used in tissues subject to expansion, stretching or distension, or which might require long-term mechanical support. Chirasorb Plus braided should not be used in patients with known allergic reactions to Chlorhexidine.

**Sizes:** 5/0 to 4 USP

**Structure:** Multifilament

**Absorption method:** Hydrolysis

### Strength Retention

Profile:	MID-TERM HEALING (35 days)	
1 Day	100%	
14 Days	75%	
21 Days	50%	

**Mass Absorption profile:** 56 - 70 days

# CHIRASORB Plus braided violet ligatures



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## Pre-cut threads

EP	USP	Length	Cat. No
1	5/0	3 x 45 cm	CV 0012
1.5	4/0	3 x 45 cm	CV 0013
2	3/0	3 x 45 cm	CV 0014
3	2/0	3 x 45 cm	CV 0015
3.5	0	3 x 45 cm	CV 0016
4	1	3 x 45 cm	CV 0017
5	2	3 x 45 cm	CV 0018
1	5/0	<b>6 x 45 cm</b>	CV 0042
1.5	4/0	6 x 45 cm	CV 0043
2	3/0	6 x 45 cm	CV 0044
3	2/0	6 x 45 cm	CV 0045
3.5	0	6 x 45 cm	CV 0046
4	1	6 x 45 cm	CV 0047
5	2	6 x 45 cm	CV 0048
2	3/0	<b>10 x 45 cm</b>	CV 0064
3	2/0	10 x 45 cm	CV 0065
3.5	0	10 x 45 cm	CV 0066
4	1	10 x 45 cm	CV 0067
5	2	10 x 45 cm	CV 0068
1	5/0	<b>2 x 75 cm</b>	CV 0022
1.5	4/0	2 x 75 cm	CV 0023
2	3/0	2 x 75 cm	CV 0024
3	2/0	2 x 75 cm	CV 0025
3.5	0	2 x 75 cm	CV 0026
4	1	2 x 75 cm	CV 0027
5	2	2 x 75 cm	CV 0028
1.5	4/0	<b>5 x 75 cm</b>	CV 0053
2	3/0	5 x 75 cm	CV 0054
3	2/0	5 x 75 cm	CV 0055

## Pre-cut threads









EP	USP	Length	Cat. No
3.5	0	5 x 75 cm	CV 0056
4	1	5 x 75 cm	CV 0057
5	2	5 x 75 cm	CV 0058
1.5	4/0	<b>1 x 150 cm</b>	CV 0083
2	3/0	1 x 150 cm	CV 0084
3	2/0	1 x 150 cm	CV 0085
3.5	0	1 x 150 cm	CV 0089
4	1	1 x 150 cm	CV 0087
5	2	1 x 150 cm	CV 0090

## Chirapack - 20 pcs./box

EP	USP	Length	Cat. No
2	3/0	1 x 250 cm	CV 1004
3	2/0	1 x 250 cm	CV 1005
3.5	0	1 x 250 cm	CV 1006
4	1	1 x 250 cm	CV 1007
5	2	1 x 250 cm	CV 1008
1.5	4/0	<b>1 x 300 cm</b>	CV 0003
2	3/0	1 x 300 cm	CV 0004
3	2/0	1 x 300 cm	CV 0005
3.5	0	1 x 300 cm	CV 0006
4	1	1 x 300 cm	CV 0007
5	2	1 x 300 cm	CV 0008
6	3 + 4	1 x 300 cm	CV 0009

Absorbable - Chirasorb Plus braided







## CHIRASORB Plus braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 10 	1	5/0	1 x 75 cm	Violet	CV 0248	
HR 13 	1	5/0	1 x 45 cm	Violet	CV 0252	
	1.5	4/0	1 x 45 cm	Violet	CV 0253	
	2	3/0	1 x 45 cm	Violet	CV 0250	
HR 18 	1	5/0	1 x 75 cm	Violet	CV 0254	
	1.5	4/0	1 x 75 cm	Violet	CV 0255	
HR 18 	1.5	4/0	1 x 45 cm	Violet	CV 0258	
	2	3/0	1 x 45 cm	Violet	CV 0259	
	1	5/0	1 x 75 cm	Violet	CV 0242	
	1.5	4/0	1 x 75 cm	Violet	CV 0256	
HR 22 	2	3/0	1 x 75 cm	Violet	CV 0257	
	3	2/0	1 x 75 cm	Violet	CV 0260	
	1.5	4/0	6 x 45 cm	Violet	CV 0526	
	2	3/0	6 x 45 cm	Violet	CV 0527	
	1.5	4/0	1 x 75 cm	Violet	CV 0261	
HR 27 	2	3/0	1 x 75 cm	Violet	CV 0262	
	3	2/0	1 x 75 cm	Violet	CV 0263	
	2	3/0	4 x 75 cm	Violet	CV 0322	
HR 27 	3	2/0	4 x 75 cm	Violet	CV 0323	
	1.5	4/0	1 x 45 cm	Violet	CV 0245	
	2	3/0	6 x 45 cm	Violet	CV 0537	
	3	2/0	6 x 45 cm	Violet	CV 0538	
	1.5	4/0	1 x 75 cm	Violet	CV 0265	
	2	3/0	1 x 75 cm	Violet	CV 0266	
	3	2/0	1 x 75 cm	Violet	CV 0267	
3.5	0	1 x 75 cm	Violet	CV 0268		
2 x HR 27 	2	3/0	1 x 90 cm	Violet	CV 0366	
	3	2/0	1 x 90 cm	Violet	CV 0367	



# CHIRASORB Plus braided

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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
 <p>HR 30</p>	2	3/0	1 x 45 cm	Violet	CV 0169	
	2	3/0	1 x 75 cm	Violet	CV 0269	
	3	2/0	1 x 75 cm	Violet	CV 0273	
	3.5	0	1 x 75 cm	Violet	CV 0274	
	4	1	1 x 75 cm	Violet	CV 1275	
 <p>HR 35</p>	3.5	0	1 x 90 cm	Violet	CV 0371	
	2	3/0	1 x 75 cm	Violet	CV 0270	
	3	2/0	1 x 75 cm	Violet	CV 0271	
	3.5	0	1 x 75 cm	Violet	CV 0272	
	4	1	1 x 75 cm	Violet	CV 1273	
 <p>HR 40</p>	5	2	1 x 75 cm	Violet	CV 1272	
	3	2/0	1 x 90 cm	Violet	CV 0374	
	3.5	0	1 x 90 cm	Violet	CV 0375	
	4	1	1 x 90 cm	Violet	CV 0376	
	3	2/0	1 x 75 cm	Violet	CV 0275	
 <p>HR 48</p>	3.5	0	1 x 75 cm	Violet	CV 0276	
	4	1	1 x 75 cm	Violet	CV 0277	
	4	1	1 x 90 cm	Violet	CV 1475	
	5	2	1 x 90 cm	Violet	CV 1476	
	5	2	1 x 90 cm	Violet	CV 1477	
 <p>HR 48</p>	5	2	1 x 90 cm	Violet	CV 1478	
	3.5	0	1 x 75 cm	Violet	CV 1402	
	4	1	1 x 75 cm	Violet	CV 1396	
	5	2	1 x 75 cm	Violet	CV 1400	
	3.5	0	1 x 90 cm	Violet	CV 1403	
 <p>HR 48</p>	4	1	1 x 90 cm	Violet	CV 1401	
	5	2	1 x 90 cm	Violet	CV 1399	
	5	2	1 x 90 cm	Violet	CV 1399	

Absorbable - Chirasorb Plus braided





## CHIRASORB Plus braided










Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 50 	3.5	0	1 x 90 cm	Violet	CV 1392	
HR 60 	3 3.5	2/0 0	1 x 75 cm 1 x 75 cm	Violet Violet	CV 0278 CV 0279	
HR 65 	4 5	1 2	1 x 75 cm 1 x 75 cm	Violet Violet	CV 1285 CV 1286	
HR 75 	5	2	1 x 75 cm	Violet	CV 0496	
<b>HR s: ½ circle, round body needle - slim</b>						
HR s 18 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Violet Violet	CV 1256 CV 1257	Slim needle
HR s 27 Black 	3	2/0	1 x 75 cm	Violet	CV 2267	Slim, black needle








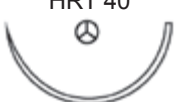


# CHIRASORB Plus braided

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Absorbable - Chirasorb Plus braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 22 	2	3/0	1 x 75 cm	Violet	CV 0420	
HRX 27 	2	3/0	1 x 75 cm	Violet	CV 0429	
	3	2/0	1 x 75 cm	Violet	CV 0430	
	3.5	0	1 x 75 cm	Violet	CV 0431	
	4	1	1 x 75 cm	Violet	CV 0432	
HRX 30 	2	3/0	1 x 75 cm	Violet	CV 0426	
	4	1	1 x 90 cm	Violet	CV 1438	
HRX 35 	3	2/0	1 x 75 cm	Violet	CV 0280	
	3.5	0	1 x 75 cm	Violet	CV 0281	
	4	1	1 x 75 cm	Violet	CV 0282	
	3.5	0	1 x 90 cm	Violet	CV 0381	
HRX 40 	3.5	0	1 x 75 cm	Violet	CV 0285	
	4	1	1 x 75 cm	Violet	CV 0286	
	3.5	0	1 x 90 cm	Violet	CV 0385	
	4	1	1 x 90 cm	Violet	CV 0386	
HRX 45 	5	2	1 x 90 cm	Violet	CV 0387	
	3.5	0	1 x 150 cm	Violet	CV 4035	Loop
	4	1	1 x 150 cm	Violet	CV 4040	Loop
	4	1	1 x 75 cm	Violet	CV 0290	
HRX 50 	5	2	1 x 75 cm	Violet	CV 0291	
	4	1	1 x 90 cm	Violet	CV 0390	
	5	2	1 x 90 cm	Violet	CV 0391	
	3.5	0	1 x 75 cm	Violet	CV 0294	
HRX 50 	4	1	1 x 75 cm	Violet	CV 0295	
	5	2	1 x 75 cm	Violet	CV 0296	
	4	1	1 x 90 cm	Violet	CV 0395	
	5	2	1 x 90 cm	Violet	CV 0396	
HRX 50 	5	2	1 x 110 cm	Violet	CV 0393	
	4	1	1 x 150 cm	Violet	CV 4540	Loop

## CHIRASORB Plus braided










Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 17 	1.5	4/0	1 x 45 cm	Violet	CV 0566	
	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Violet Violet	CV 0561 CV 0562	
HRT 25 	2	3/0	1 x 75 cm	Violet	CV 0581	
	3	2/0	1 x 75 cm	Violet	CV 0582	
	3.5	0	1 x 75 cm	Violet	CV 0583	
HRT 30 	3.5	0	1 x 75 cm	Violet	CV 0586	
	4	1	1 x 75 cm	Violet	CV 0587	
	4	1	1 x 90 cm	Violet	CV 0589	
HRT 31 	3	2/0	1 x 75 cm	Violet	CV 0606	
HRT 37 	3	2/0	1 x 75 cm	Violet	CV 0592	
	3.5	0	1 x 75 cm	Violet	CV 0593	
	3	2/0	1 x 90 cm	Violet	CV 0597	
	3.5 4	0 1	1 x 90 cm 1 x 90 cm	Violet Violet	CV 0598 CV 0599	
HRT 40 	3.5	0	1 x 75 cm	Violet	CV 0653	
	4	1	1 x 90 cm	Violet	CV 0651	
HRT 45 	3	2/0	1 x 75 cm	Violet	CV 0663	
	5	2	1 x 75 cm	Violet	CV 0665	
HRT 48 	3	2/0	1 x 75 cm	Violet	CV 1671	
	5	2	1 x 90 cm	Violet	CV 1668	



# CHIRASORB Plus braided

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Absorbable - Chirasorb Plus braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRN: ½ circle, round body needle - blunt point</b>						
HRN 50 	4	1	1 x 90 cm	Violet	CV 0686	
<b>HRF: ½ circle, flattened body needle, taper point</b>						
HRF 17 	1 1.5	5/0 4/0	1 x 75 cm 1 x 75 cm	Violet Violet	CV 9242 CV 9256	
HRF 22 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Violet Violet	CV 9344 CV 9343	
HRF 26 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	CV 9266 CV 9267	
	2	3/0	1 x 90 cm	Violet	CV 9366	
HRF 31 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	CV 9269 CV 9273	
HRF 36 	2 3 3.5	3/0 2/0 0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	CV 9577 CV 9236 CV 9235	
<b>DR: 3/8 circle, round body needle</b>						
DR 15 	1.5	4/0	1 x 75 cm	Violet	CV 0724	
DR 21 	3	2/0	1 x 75 cm	Violet	CV 0744	
DR 30 	2	3/0	1 x 75 cm	Violet	CV 0746	

## CHIRASORB Plus braided

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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DRN: 3/8 circle, round body needle - blunt point</b>						

DRN 60



4

1

1 x 100 cm

Violet

CV 0699

### FR: 5/8 circle, round body needle

FR 27



3  
3.5

2/0  
0

1 x 75 cm  
1 x 75 cm

Violet  
Violet

CV 0610  
CV 0611

FR 38



3  
3.5

2/0  
0

1 x 75 cm  
1 x 75 cm

Violet  
Violet

CV 0620  
CV 0621

### GR: Straight, round body needle

GR 20



1.5  
2

4/0  
3/0

1 x 45 cm  
1 x 45 cm

Violet  
Violet

CV 0406  
CV 0407

1.5

4/0

1 x 75 cm

Violet

CV 0402

3

2/0

1 x 90 cm

Violet

CV 0399

### JRT: Hook shaped, round body needle - tapercut

JRT 30



4

1

1 x 75 cm

Violet

CV 0694

### KR: Ski, round body needle

KR 27



2

3/0

1 x 40 cm

Violet











CV 4630

Loop








# CHIRASORB Plus braided

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Absorbable - Chirasorb Plus braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HS: ½ circle, reverse cutting needle</b>						
HS 18 	2	3/0	1 x 75 cm	Violet	CV 0424	
	3	2/0	1 x 75 cm	Violet	CV 0425	
HS 21 	1.5	4/0	1 x 75 cm	Violet	CV 0300	
HS 25 	2	3/0	1 x 75 cm	Violet	CV 0441	
	3	2/0	1 x 75 cm	Violet	CV 0442	
	3.5	0	1 x 75 cm	Violet	CV 0443	
HS 30 	3	2/0	1 x 75 cm	Violet	CV 0445	
	3.5	0	1 x 75 cm	Violet	CV 0446	
	4	1	1 x 75 cm	Violet	CV 0447	
HS 37 	3.5	0	1 x 75 cm	Violet	CV 1451	
	4	1	1 x 75 cm	Violet	CV 1452	
	3.5	0	1 x 90 cm	Violet	CV 0451	
	5	2	1 x 90 cm	Violet	CV 0453	
HS 40 	3	2/0	1 x 75 cm	Violet	CV 0455	
	3.5	0	1 x 75 cm	Violet	CV 0456	
	4	1	1 x 75 cm	Violet	CV 0457	
	5	2	1 x 75 cm	Violet	CV 0458	
	3.5	0	1 x 90 cm	Violet	CV 0460	
	4	1	1 x 90 cm	Violet	CV 0461	
HS 48 	3.5	0	1 x 75 cm	Violet	CV 0466	
	4	1	1 x 90 cm	Violet	CV 0469	
	5	2	1 x 90 cm	Violet	CV 0470	

## CHIRASORB Plus braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 12 	1	5/0	1 x 45 cm	Violet	CV 0202	
	1.5	4/0	1 x 45 cm	Violet	CV 0203	
DS 15 	1	5/0	1 x 45 cm	Violet	CV 0205	
	1.5	4/0	1 x 45 cm	Violet	CV 0206	
	2	3/0	1 x 45 cm	Violet	CV 0207	
DS 19 	1	5/0	1 x 45 cm	Violet	CV 0214	
	1.5	4/0	1 x 45 cm	Violet	CV 0215	
	2	3/0	1 x 45 cm	Violet	CV 0216	
DS 25 	1.5	4/0	1 x 75 cm	Violet	CV 0222	
	2	3/0	1 x 75 cm	Violet	CV 0223	
	3	2/0	1 x 75 cm	Violet	CV 0224	
DS 30 	3	2/0	1 x 75 cm	Violet	CV 0234	
	3.5	0	1 x 75 cm	Violet	CV 0235	
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
DSM 12 	1	5/0	1 x 45 cm	Violet	CV 0302	Advanced cutting needle
<b>GS: Straight, reverse cutting needle</b>						
GS 13 	1.5	4/0	1 x 45 cm	Violet	CV 1198	





# CHIRASORB Plus braided natural ligatures



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## Pre-cut threads









EP	USP	Length	Cat. No
1	5/0	3 x 45 cm	CN 0012
1.5	4/0	3 x 45 cm	CN 0013
2	3/0	3 x 45 cm	CN 0014
3	2/0	3 x 45 cm	CN 0015
3.5	0	3 x 45 cm	CN 0016
2	3/0	<b>10 x 45 cm</b>	CN 0064
3	2/0	10 x 45 cm	CN 0065
1	5/0	<b>2 x 75 cm</b>	CN 0022
1.5	4/0	2 x 75 cm	CN 0023
2	3/0	2 x 75 cm	CN 0024
3	2/0	2 x 75 cm	CN 0025
1.5	4/0	<b>5 x 75 cm</b>	CN 0053
2	3/0	5 x 75 cm	CN 0054
3	2/0	5 x 75 cm	CN 0055
3.5	0	5 x 75 cm	CN 0056
4	1	5 x 75 cm	CN 0057
5	2	5 x 75 cm	CN 0058

## Chirapack - 20 pcs./box

EP	USP	Length	Cat. No
1.5	4/0	1 x 300 cm	CN 0003
2	3/0	1 x 300 cm	CN 0004
3	2/0	1 x 300 cm	CN 0005
3.5	0	1 x 300 cm	CN 0006









## CHIRASORB Plus braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 13 	1 1.5	5/0 4/0	1 x 45 cm 1 x 45 cm	Natural Natural	CN 0252 CN 0253	
HR 18 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Natural Natural	CN 0256 CN 0257	
HR 22 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Natural Natural	CN 0262 CN 0263	
HR 27 	2	3/0	1 x 75 cm	Natural	CN 0266	
HR 30 	3.5	0	1 x 75 cm	Natural	CN 0274	
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 17 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Natural Natural	CN 0561 CN 0562	
HRT 22 	2	3/0	1 x 75 cm	Natural	CN 0572	
HRT 40 	3 3.5	2/0 0	1 x 75 cm 1 x 75 cm	Natural Natural	CN 0694 CN 0653	



# CHIRASORB Plus braided

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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRF: ½ circle, flattened body needle, taper point</b>						
HRF 13 	1	5/0	1 x 45 cm	Natural	CN 9252	
HRF 22 	2	3/0	1 x 75 cm	Natural	CN 9262	
HRF 26 	3	2/0	1 x 75 cm	Natural	CN 9267	
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 12 	1	5/0	1 x 45 cm	Natural	CN 1202	
DS 15 	1.5 2	4/0 3/0	1 x 45 cm 1 x 45 cm	Natural Natural	CN 1206 CN 1207	
DS 19 	1 1.5 2	5/0 4/0 3/0	1 x 45 cm 1 x 45 cm 1 x 45 cm	Natural Natural Natural	CN 1215 CN 1216 CN 1217	
	1.5 2 3	4/0 3/0 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Natural Natural Natural	CN 1211 CN 1212 CN 1213	

Absorbable - Chirasorb Plus braided

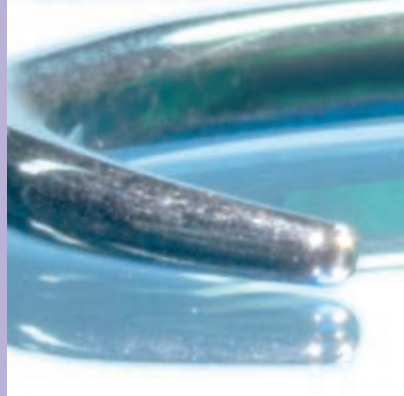
Chirlac

**Chirlac  
braided**

Chirlac

Chirlac

Chirlac



## CHIRLAC braided

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CHIRLAC braided is a mid-term absorbable, synthetic, multifilament suture material of extremely high tensile strength made of the homopolymer of hydroacetic acid (glycolic acid).

The thread has a homogeneous structure and surface, which gives it low frictional properties and holds firmly without slipping when knotted.

Chirlac braided is coated with an absorbable substance, which reduces the capillary effect, provides excellent holding properties and diminishes the tendency to cut into the flesh, while ensuring that the knots hold firmly.

Chirlac braided is degraded in the body by a simple hydrolytic process. The degraded products are metabolised completely in the body. Absorption begins as a loss of tensile strength without appreciable loss of mass.



Absorbable - Chirlac braided

**Indication:** General soft tissue approximation and/or ligation, for the surgical adaptation of Muscles and Fascia, for suturing of Parenchymal organs, Peripheral nerves, for ligatures of small vessels and for Intradermal suturing.

**Contraindication:** Chirlac braided should not be used in tissues subject to expansion, stretching or distension, or which might require long-term mechanical support.

**Sizes:** 9/0 to 6 USP

**Structure:** Multifilament

**Absorption method:** Hydrolysis

**Strength Retention Profile:**

MID-TERM HEALING (28 - 35 days)	
1 Day	100%
14 Days	65% - 75%
21 Days	45% - 50%

**Mass Absorption profile:** 80 - 90 days

# CHIRLAC braided violet ligatures

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## Pre-cut threads

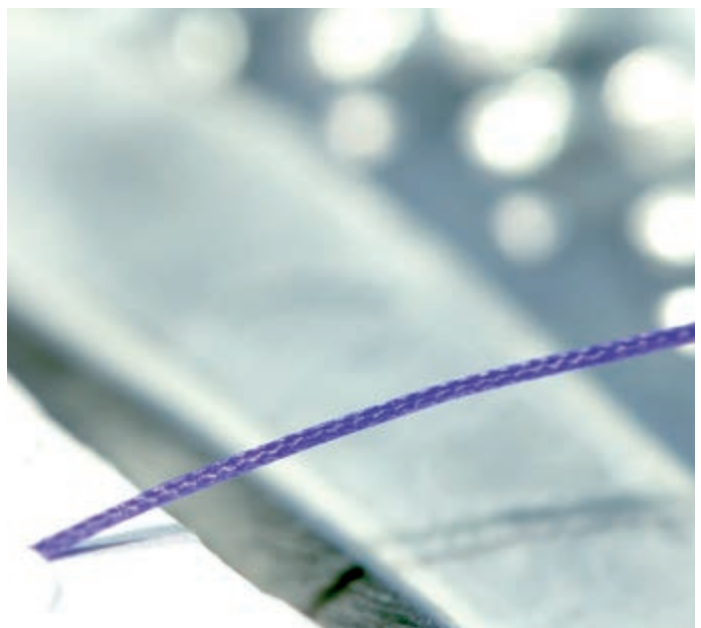
EP	USP	Length	Cat. No
1	5/0	3 x 45 cm	PG 0012
1.5	4/0	3 x 45 cm	PG 0013
2	3/0	3 x 45 cm	PG 0014
3	2/0	3 x 45 cm	PG 0015
3.5	0	3 x 45 cm	PG 0016
4	1	3 x 45 cm	PG 0017
5	2	3 x 45 cm	PG 0018
1	5/0	<b>6 x 45 cm</b>	PG 0042
1.5	4/0	6 x 45 cm	PG 0043
2	3/0	6 x 45 cm	PG 0044
3	2/0	6 x 45 cm	PG 0045
3.5	0	6 x 45 cm	PG 0046
4	1	6 x 45 cm	PG 0047
5	2	6 x 45 cm	PG 0048
2	3/0	<b>10 x 45 cm</b>	PG 0064
3	2/0	10 x 45 cm	PG 0065
3.5	0	10 x 45 cm	PG 0066
4	1	10 x 45 cm	PG 0067
5	2	10 x 45 cm	PG 0068
2	3/0	<b>12 x 45 cm</b>	PG 4564
1	5/0	<b>2 x 75 cm</b>	PG 0022
1.5	4/0	2 x 75 cm	PG 0023
2	3/0	2 x 75 cm	PG 0024
3	2/0	2 x 75 cm	PG 0025
3.5	0	2 x 75 cm	PG 0026
4	1	2 x 75 cm	PG 0027
5	2	2 x 75 cm	PG 0028
1.5	4/0	<b>5 x 75 cm</b>	PG 0053
2	3/0	5 x 75 cm	PG 0054
3	2/0	5 x 75 cm	PG 0055
3.5	0	5 x 75 cm	PG 0056
4	1	5 x 75 cm	PG 0057
5	2	5 x 75 cm	PG 0058
2	3/0	<b>1 x 140 cm</b>	PG 4084

## Pre-cut threads

EP	USP	Length	Cat. No
1.5	4/0	1 x 150 cm	PG 0083
2	3/0	1 x 150 cm	PG 0084
3	2/0	1 x 150 cm	PG 0085
3.5	0	1 x 150 cm	PG 0089
4	1	1 x 150 cm	PG 0087
5	2	1 x 150 cm	PG 0090

## Chirapack - 20 pcs./box











EP	USP	Length	Cat. No
2	3/0	1 x 250 cm	PG 1004
3	2/0	1 x 250 cm	PG 1005
3.5	0	1 x 250 cm	PG 1006
4	1	1 x 250 cm	PG 1007
5	2	1 x 250 cm	PG 1008
1.5	4/0	<b>1 x 300 cm</b>	PG 0003
2	3/0	1 x 300 cm	PG 0004
3	2/0	1 x 300 cm	PG 0005
3.5	0	1 x 300 cm	PG 0006
4	1	1 x 300 cm	PG 0007
5	2	1 x 300 cm	PG 0008
6	3 + 4	1 x 300 cm	PG 0009



Absorbable - Chirlac braided



## CHIRLAC braided










Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 10 	0.7	6/0	1 x 45 cm	Violet	PG 0246	
	1	5/0	1 x 75 cm	Violet	PG 0248	
HR 13 	0.7	6/0	1 x 45 cm	Violet	PG 0251	
	1	5/0	1 x 45 cm	Violet	PG 0252	
	1.5	4/0	1 x 45 cm	Violet	PG 0253	
	2	3/0	1 x 45 cm	Violet	PG 0250	
	0.7	6/0	1 x 75 cm	Violet	PG 1251	
	1	5/0	1 x 75 cm	Violet	PG 0254	
	1.5	4/0	1 x 75 cm	Violet	PG 0255	
HR 17 	1	5/0	1 x 75 cm	Violet	PG 0249	
HR 18 	1.5	4/0	1 x 45 cm	Violet	PG 0258	
	2	3/0	1 x 45 cm	Violet	PG 0259	
	0.7	6/0	1 x 75 cm	Violet	PG 0241	
	1	5/0	1 x 75 cm	Violet	PG 0242	
	1.5	4/0	1 x 75 cm	Violet	PG 0256	
	2	3/0	1 x 75 cm	Violet	PG 0257	
	3	2/0	1 x 75 cm	Violet	PG 0260	
2 x HR 18 	1.5	4/0	1 x 90 cm	Violet	PG 2265	
HR 20 	1.5	4/0	1 x 75 cm	Violet	PG 1261	
	2	3/0	1 x 75 cm	Violet	PG 1259	
HR 22 	1.5	4/0	6 x 45 cm	Violet	PG 0526	
	2	3/0	6 x 45 cm	Violet	PG 0527	
	1.5	4/0	1 x 75 cm	Violet	PG 0261	
	2	3/0	1 x 75 cm	Violet	PG 0262	
	3	2/0	1 x 75 cm	Violet	PG 0263	
	2	3/0	4 x 75 cm	Violet	PG 0322	
	3	2/0	4 x 75 cm	Violet	PG 0323	
HR 22 A 	2	3/0	6 x 45 cm	Violet	PG 0327	Take-off needle
2 x HR 22 	3	2/0	1 x 75 cm	Violet	PG 0532	
	2	3/0	1 x 90 cm	Violet	PG 0533	
	3	2/0	1 x 90 cm	Violet	PG 0534	
HR 26 	2	3/0	1 x 75 cm	Violet	PG 0535	
	3	2/0	1 x 75 cm	Violet	PG 0536	











# CHIRLAC braided

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Absorbable - Chirlac braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
 <p>HR 27</p>	1.5	4/0	1 x 45 cm	Violet	PG 0245	
	3	2/0	6 x 45 cm	Violet	PG 0538	
	1.5	4/0	1 x 75 cm	Violet	PG 0265	
	2	3/0	1 x 75 cm	Violet	PG 0266	
	3	2/0	1 x 75 cm	Violet	PG 0267	
	3.5	0	1 x 75 cm	Violet	PG 0268	
 <p>HR 30</p>	2	3/0	1 x 90 cm	Violet	PG 0366	
	3	2/0	1 x 90 cm	Violet	PG 0367	
	2	3/0	1 x 45 cm	Violet	PG 0169	
 <p>HR 30</p>	2	3/0	1 x 75 cm	Violet	PG 0269	
	3	2/0	1 x 75 cm	Violet	PG 0273	
	3.5	0	1 x 75 cm	Violet	PG 0274	
	4	1	1 x 75 cm	Violet	PG 1275	
 <p>HR 30</p>	3	2/0	1 x 90 cm	Violet	PG 0364	
	3.5	0	1 x 90 cm	Violet	PG 0371	
 <p>2 x HR 30</p>	3	2/0	1 x 100 cm	Violet	PG 2275	
 <p>HR 30 A</p>	3.5	0	4 x 75 cm	Violet	PG 3274	Take-off needle
 <p>HR 35</p>	2	3/0	1 x 75 cm	Violet	PG 0270	
	3	2/0	1 x 75 cm	Violet	PG 0271	
	3.5	0	1 x 75 cm	Violet	PG 0272	
	4	1	1 x 75 cm	Violet	PG 1273	
	5	2	1 x 75 cm	Violet	PG 1272	
 <p>HR 35</p>	2	3/0	1 x 90 cm	Violet	PG 0373	
	3	2/0	1 x 90 cm	Violet	PG 0374	
	3.5	0	1 x 90 cm	Violet	PG 0375	
	4	1	1 x 90 cm	Violet	PG 0376	
 <p>HR 35 A</p>	3	2/0	4 x 75 cm	Violet	PG 3374	Take-off needle






## CHIRLAC braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
 <p>HR 40</p>	3	2/0	1 x 75 cm	Violet	PG 0275	
	3.5	0	1 x 75 cm	Violet	PG 0276	
	4	1	1 x 75 cm	Violet	PG 0277	
 <p>HR 48</p>	3	2/0	1 x 90 cm	Violet	PG 1475	
	3.5	0	1 x 90 cm	Violet	PG 1476	
	4	1	1 x 90 cm	Violet	PG 1477	
	5	2	1 x 90 cm	Violet	PG 1478	
 <p>HR 50</p>	3.5	0	1 x 75 cm	Violet	PG 1402	
	5	2	1 x 75 cm	Violet	PG 1400	
	3.5	0	1 x 90 cm	Violet	PG 1403	
 <p>HR 50</p>	4	1	1 x 90 cm	Violet	PG 1401	
	5	2	1 x 90 cm	Violet	PG 1399	
	3	2/0	1 x 75 cm	Violet	PG 1291	
 <p>HR 60</p>	3	2/0	1 x 90 cm	Violet	PG 1391	
	3.5	0	1 x 90 cm	Violet	PG 1392	
	4	1	1 x 90 cm	Violet	PG 1393	
 <p>HR 65</p>	3	2/0	1 x 75 cm	Violet	PG 0278	
	3.5	0	1 x 75 cm	Violet	PG 0279	
 <p>HR 75</p>	5	2	1 x 75 cm	Violet	PG 1286	
	4	1	1 x 75 cm	Violet	PG 1289	
 <p>HR 75</p>	5	2	1 x 75 cm	Violet	PG 0496	



# CHIRLAC braided










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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR s: ½ circle, round body needle - slim</b>						
HR s 18 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Violet Violet	PG 1256 PG 1257	Slim needle
HR s 18 black 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Violet Violet	PG 2256 PG 2257	Slim, black needle
HR s 22 	2	3/0	1 x 45 cm	Violet	PG 1362	Slim needle
	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	PG 1262 PG 1263	
HR s 22 black 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	PG 2262 PG 2263	Slim, black needle
HR s 27 	2	3/0	1 x 45 cm	Violet	PG 1366	Slim needle
	3	2/0	1 x 75 cm	Violet	PG 1267	

Absorbable - Chirlac braided



## CHIRLAC braided


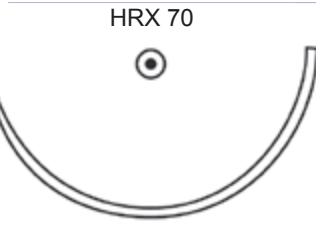





Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRX: ½ circle, round body needle - extra strong</b>						
 HRX 22	2	3/0	1 x 75 cm	Violet	PG 0420	
	3	2/0	1 x 75 cm	Violet	PG 0421	
	3.5	0	1 x 75 cm	Violet	PG 0422	
 HRX 27	2	3/0	1 x 75 cm	Violet	PG 0429	
	3	2/0	1 x 75 cm	Violet	PG 0430	
	3.5	0	1 x 75 cm	Violet	PG 0431	
	4	1	1 x 75 cm	Violet	PG 0432	
	5	2	1 x 75 cm	Violet	PG 0433	
	3	2/0	1 x 90 cm	Violet	PG 0435	
 HRX 30	3.5	0	1 x 90 cm	Violet	PG 0436	
	4	1	1 x 90 cm	Violet	PG 0437	
	4	1	1 x 90 cm	Violet	PG 0437	
 HRX 35	4	1	1 x 75 cm	Violet	PG 1436	
	3	2/0	1 x 75 cm	Violet	PG 0280	
	3.5	0	1 x 75 cm	Violet	PG 0281	
 HRX 36	4	1	1 x 75 cm	Violet	PG 0282	
	3	2/0	1 x 90 cm	Violet	PG 0380	
	3.5	0	1 x 90 cm	Violet	PG 0381	
	4	1	1 x 90 cm	Violet	PG 0382	
 HRX 40	3.5	0	1 x 90 cm	Violet	PG 1381	
	4	1	1 x 90 cm	Violet	PG 1382	
	5	2	1 x 75 cm	Violet	PG 0285	
	4	1	1 x 75 cm	Violet	PG 0286	
	5	2	1 x 75 cm	Violet	PG 0287	
	3.5	0	1 x 90 cm	Violet	PG 0385	
 HRX 45	4	1	1 x 90 cm	Violet	PG 0386	
	5	2	1 x 90 cm	Violet	PG 0387	
	3.5	0	1 x 150 cm	Violet	PG 4035	Loop
	4	1	1 x 150 cm	Violet	PG 4040	Loop
 HRX 45	4	1	1 x 75 cm	Violet	PG 0290	
	5	2	1 x 75 cm	Violet	PG 0291	
 HRX 45	4	1	1 x 90 cm	Violet	PG 0390	
	5	2	1 x 90 cm	Violet	PG 0391	







# CHIRLAC braided

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Absorbable - Chirlac braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRX: ½ circle, round body needle - extra strong</b>						
 <p>HRX 50</p>	3.5	0	1 x 75 cm	Violet	PG 0294	
	4	1	1 x 75 cm	Violet	PG 0295	
	5	2	1 x 75 cm	Violet	PG 0296	
	4	1	1 x 90 cm	Violet	PG 0395	
 <p>HRX 70</p>	5	2	1 x 90 cm	Violet	PG 0396	
	5	2	1 x 110 cm	Violet	PG 0393	
	4	1	1 x 150 cm	Violet	PG 4540	Loop
<b>HRT: ½ circle, round body needle - tapercut</b>						
 <p>HRT 13</p>	1.5	4/0	1 x 75 cm	Violet	PG 0551	
	1.5	4/0	1 x 45 cm	Violet	PG 0566	
 <p>HRT 17</p>	2	3/0	1 x 45 cm	Violet	PG 0567	
	1	5/0	1 x 75 cm	Violet	PG 0560	
	1.5	4/0	1 x 75 cm	Violet	PG 0561	
 <p>HRT 17 A</p>	2	3/0	1 x 75 cm	Violet	PG 0562	
	3	2/0	1 x 90 cm	Violet	PG 0569	
 <p>HRT 22</p>	1.5	4/0	6 x 45 cm	Violet	PG 0633	Take-off needle
 <p>HRT 25</p>	3	2/0	1 x 75 cm	Violet	PG 0573	
	1.5	4/0	1 x 75 cm	Violet	PG 0580	
	2	3/0	1 x 75 cm	Violet	PG 0581	
	3	2/0	1 x 75 cm	Violet	PG 0582	

## CHIRLAC braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 30	3.5	0	1 x 75 cm	Violet	PG 0586	
	4	1	1 x 90 cm	Violet	PG 0589	
HRT 31	3	2/0	1 x 75 cm	Violet	PG 0606	
						
HRT 37	3	2/0	1 x 75 cm	Violet	PG 0592	
	3.5	0	1 x 75 cm	Violet	PG 0593	
	3	2/0	1 x 90 cm	Violet	PG 0597	
	3.5	0	1 x 90 cm	Violet	PG 0598	
	4	1	1 x 90 cm	Violet	PG 0599	
HRT 45	5	2	1 x 75 cm	Violet	PG 0665	
						









# CHIRLAC braided







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Absorbable - Chirlac braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRTX: ½ circle, round body needle - tapercut, extra strong</b>						
HRTX 45 	5	2	1 x 90 cm	Violet	PG 0643	
HRTX 50 	4	1	1 x 90 cm	Violet	PG 0656	
	4	1	1 x 150 cm	Violet	PG 5040	Loop
<b>HRN: ½ circle, round body needle - blunt point</b>						
HRN 50 	4	1	1 x 90 cm	Violet	PG 0686	
<b>HRF: ½ circle, flattened body needle, taper point</b>						
HRF 26 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	PG 9266 PG 9267	






## CHIRLAC braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DR: 3/8 circle, round body needle</b>						
DR 21 	3	2/0	1 x 75 cm	Violet	PG 0744	
DR 30 	2	3/0	1 x 75 cm	Violet	PG 0746	
<b>DRN: 3/8 circle, round body needle - blunt point</b>						
DRN 60 	4	1	1 x 100 cm	Violet	PG 0699	
<b>FR: 5/8 circle, round body needle</b>						
FR 27 	3 4	2/0 1	1 x 75 cm 1 x 75 cm	Violet Violet	PG 0610 PG 0612	
FR 38 	3 3.5	2/0 0	1 x 75 cm 1 x 75 cm	Violet Violet	PG 0620 PG 0621	
<b>GR: Straight, round body needle</b>						
GR 20 	1.5 2	4/0 3/0	1 x 45 cm 1 x 45 cm	Violet Violet	PG 0406 PG 0407	
	1.5	4/0	1 x 75 cm	Violet	PG 0402	
	3	2/0	1 x 90 cm	Violet	PG 0399	



# CHIRLAC braided









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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>KR: Ski, round body needle</b>						
KR 27 	2	3/0	1 x 40 cm	Violet	PG 4630	Loop
<b>JRT: Hook shaped, round body needle - tapercut</b>						
JRT 30 	4	1	1 x 75 cm	Violet	PG 0694	
<b>J-RX: Hook shaped, round body needle</b>						
J-RX 22 	3 3.5	2/0 0	1 x 75 cm 1 x 75 cm	Violet Violet	PG 0397 PG 0398	

Absorbable - Chirlac braided



## CHIRLAC braided









Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HS: ½ circle, reverse cutting needle</b>						
HS 18 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	PG 0424 PG 0425	
HS 21 	1.5 2	4/0 3/0	1 x 45 cm 1 x 45 cm	Violet Violet	PG 0298 PG 0299	
	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Violet Violet	PG 0300 PG 0301	
2 x HS 21 	1.5	4/0	1 x 75 cm	Violet	PG 1300	
HS 25 	2 3 3.5	3/0 2/0 0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	PG 0441 PG 0442 PG 0443	
HS 30 	3 3.5 4	2/0 0 1	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	PG 0445 PG 0446 PG 0447	
HS 36 	3.5	0	1 x 75 cm	Violet	PG 0351	
HS 37 	2	3/0	1 x 90 cm	Violet	PG 0449	
HS 40 	3 3.5 4 5	2/0 0 1 2	1 x 75 cm 1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet Violet	PG 0455 PG 0456 PG 0457 PG 0458	
	3.5 4	0 1	1 x 90 cm 1 x 90 cm	Violet Violet	PG 0460 PG 0461	













# CHIRLAC braided

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Absorbable - Chirlac braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HS: ½ circle, reverse cutting needle</b>						
HS 45 	3.5	0	1 x 75 cm	Violet	PG 0472	
HS 48 	3.5	0	1 x 75 cm	Violet	PG 0466	
	3.5	0	1 x 90 cm	Violet	PG 0468	
	4	1	1 x 90 cm	Violet	PG 0469	
	5	2	1 x 90 cm	Violet	PG 0470	
HS 55 	4	1	1 x 75 cm	Violet	PG 0476	
	5	2	1 x 75 cm	Violet	PG 0477	
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 12 	0.7	6/0	1 x 45 cm	Violet	PG 0201	
	1	5/0	1 x 45 cm	Violet	PG 0202	
	1.5	4/0	1 x 45 cm	Violet	PG 0203	
	0.7	6/0	1 x 75 cm	Violet	PG 0196	
DS 15 	1	5/0	1 x 45 cm	Violet	PG 0205	
	1.5	4/0	1 x 45 cm	Violet	PG 0206	
	2	3/0	1 x 45 cm	Violet	PG 0207	
	1.5	4/0	1 x 75 cm	Violet	PG 0209	
DS 19 	1	5/0	1 x 45 cm	Violet	PG 0214	
	1.5	4/0	1 x 45 cm	Violet	PG 0215	
	2	3/0	1 x 45 cm	Violet	PG 0216	
	3	2/0	1 x 45 cm	Violet	PG 0217	
	1.5	4/0	1 x 75 cm	Violet	PG 0211	
	2	3/0	1 x 75 cm	Violet	PG 0212	
	3	2/0	1 x 75 cm	Violet	PG 0213	
DS 24 	2	3/0	1 x 75 cm	Violet	PG 1225	
	3	2/0	1 x 75 cm	Violet	PG 0228	
DS 25 	1.5	4/0	1 x 75 cm	Violet	PG 0222	
	2	3/0	1 x 75 cm	Violet	PG 0223	
	3	2/0	1 x 75 cm	Violet	PG 0224	

## CHIRLAC braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 26 	2	3/0	1 x 45 cm	Violet	PG 1221	
DS 30 	3 3.5 4	2/0 0 1	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	PG 0234 PG 0235 PG 0229	
DS 37 	5	2	1 x 75 cm	Violet	PG 1237	
DS 38 	3 4	2/0 1	1 x 75 cm 1 x 75 cm	Violet Violet	PG 0244 PG 1246	
DS 50 	3.5	0	1 x 75 cm	Violet	PG 1247	
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
DSM 12 	1	5/0	1 x 45 cm	Violet	PG 0302	Advanced cutting needle
DSM 19 	2	3/0	1 x 45 cm	Violet	PG 1213	Advanced cutting needle
DSM 25 	2	3/0	1 x 75 cm	Violet	PG 1223	Advanced cutting needle
<b>GS: Straight, reverse cutting needle</b>						
GS 13 	1.5	4/0	1 x 45 cm	Violet	PG 1198	
GS 60 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	PG 0236 PG 0237	
<b>Minimal invasive surgery</b>						
	4	1	1 x 70 cm	Violet	MS 0125	Loop
	5	2	1 x 70 cm	Violet	MS 0126	Loop



# CHIRLAC braided natural ligature

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## Pre-cut threads








EP	USP	Length	Cat. No
1	5/0	3 x 45 cm	PN 0012
1.5	4/0	3 x 45 cm	PN 0013
2	3/0	3 x 45 cm	PN 0014
3	2/0	3 x 45 cm	PN 0015
3.5	0	3 x 45 cm	PN 0016
2	3/0	<b>10 x 45 cm</b>	PN 0064
3	2/0	10 x 45 cm	PN 0065
1.5	4/0	<b>2 x 75 cm</b>	PN 0023
2	3/0	2 x 75 cm	PN 0024
3	2/0	2 x 75 cm	PN 0025

## Chirapack - 20 pcs./box

EP	USP	Length	Cat. No
1.5	4/0	1 x 300 cm	PN 0003
2	3/0	1 x 300 cm	PN 0004
3	2/0	1 x 300 cm	PN 0005
3.5	0	1 x 300 cm	PN 0006














# CHIRLAC braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 13 	1 1.5	5/0 4/0	1 x 45 cm 1 x 45 cm	Natural Natural	PN 0252 PN 0253	
HR 13 A 	1	4/0	6 x 45 cm	Natural	PN 0352	Take-off needle
HR 18 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Natural Natural	PN 0256 PN 0257	
HR 18 A 	2	3/0	6 x 45 cm	Natural	PN 0357	Take-off needle
HR 22 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Natural Natural	PN 0262 PN 0263	
HR 27 	2 3 3.5	3/0 2/0 0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Natural Natural Natural	PN 0266 PN 0267 PN 0268	
HR 30 	3.5	0	1 x 75 cm	Natural	PN 0274	



## CHIRLAC braided






Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 17 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Natural Natural	PN 0561 PN 0562	
HRT 22 	2	3/0	1 x 75 cm	Natural	PN 0572	
<b>HRF: ½ circle, flattened body needle, taper point</b>						
HRF 13 	0.7	6/0	1 x 45 cm	Natural	PN 9251	
<b>HS: ½ circle, reverse cutting needle</b>						
HS 18 	2	3/0	1 x 75 cm	Natural	PN 0424	
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 12 	0.7 1	6/0 5/0	1 x 45 cm 1 x 45 cm	Natural Natural	PN 1201 PN 1202	
DS 15 	1.5 2	4/0 3/0	1 x 45 cm 1 x 45 cm	Natural Natural	PN 1206 PN 1207	
DS 19 	1 1.5 2	5/0 4/0 3/0	1 x 45 cm 1 x 45 cm 1 x 45 cm	Natural Natural Natural	PN 1215 PN 1216 PN 1217	
DS 25 	2 2 3	3/0 3/0 2/0	1 x 45 cm 1 x 75 cm 1 x 75 cm	Natural Natural Natural	PN 1332 PN 1232 PN 1233	
DS 26 	3	2/0	1 x 75 cm	Natural	PN 1334	
DS 30 	3 3.5	2/0 0	1 x 75 cm 1 x 75 cm	Natural Natural	PN 1243 PN 1244	
DS 36 	3.5	0	1 x 75 cm	Natural	PN 1245	



## CHIRLAC braided

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Absorbable - Chirlac braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
DSM 12 	0.7	6/0	1 x 45 cm	Natural	PN 0201	Advanced cutting needle
	1	5/0	1 x 45 cm	Natural	PN 0202	
	1.5	4/0	1 x 45 cm	Natural	PN 0203	
DSM 15 	1	5/0	1 x 45 cm	Natural	PN 0206	Advanced cutting needle
	1.5	4/0	1 x 45 cm	Natural	PN 0207	
	2	3/0	1 x 45 cm	Natural	PN 0208	
DSM 19 	1.5	4/0	1 x 45 cm	Natural	PN 0216	Advanced cutting needle
	2	3/0	1 x 45 cm	Natural	PN 0217	
	1.5	4/0	1 x 75 cm	Natural	PN 0212	
	2	3/0	1 x 75 cm	Natural	PN 0213	
DSM 25 	2	3/0	1 x 75 cm	Natural	PN 0223	Advanced cutting needle
	3	2/0	1 x 75 cm	Natural	PN 0224	
<b>DSMC: 3/8 circle, conventional cutting needle - micropoint</b>						
DSMC 16 	1.5	4/0	1 x 45 cm	Natural	PN 8207	Advanced cutting needle

Polydiox

**Polydiox  
monofilament**

Polydiox

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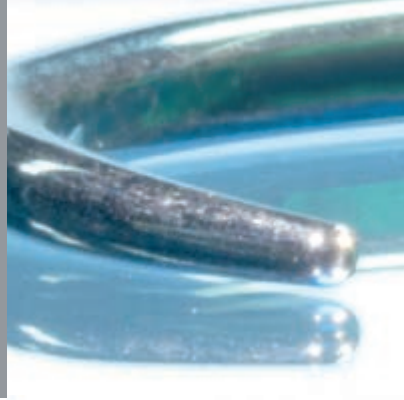
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## POLYDOX monofilament

POLYDOX monofilament is a long-term absorbable, synthetic suture made of polydioxanone. The suture offers good handling combined with great strength due to its slow degradation profile.

Polydox monofilament is ideal for all indications, where an extended wound support of more than 4 weeks is desirable. The threads are available in violet and natural.

The suture is very flexible, pliable and easy to knot. In tissue, the thread can cause a slight initial inflammatory reaction.



**Indication:** General soft tissue approximation, Orthopaedics (e.g. Joint capsule, Tendons), Fascia Closure, Urology, Gynaecology and Plastic surgery.

**Contraindication:** Polydox monofilament should not be used where prolonged approximation of tissues under stress is required.

**Sizes:** 7/0 to 4 USP

**Structure:** Monofilament

**Absorption method:** Hydrolysis

**Strength Retention Profile:** LONG-TERM HEALING (90 - 98 days)












1 Day	100%
45 Days	50%

**Mass Absorption profile:** 180 - 240 days










# POLYDOX monofilament

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Absorbable - Polydox monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
 HR 10	0.7	6/0	1 x 75 cm	Violet	DX 0246	
	1	5/0	1 x 75 cm	Violet	DX 0247	
 HR 13	1	5/0	1 x 45 cm	Violet	DX 0248	
	0.7	6/0	1 x 75 cm	Violet	DX 0249	
	1	5/0	1 x 75 cm	Violet	DX 0250	
	1.5	4/0	1 x 75 cm	Violet	DX 0251	
 2 x HR 13	1	5/0	1 x 75 cm	Violet	DX 5245	
 HR 17	1	5/0	1 x 75 cm	Violet	DX 0254	
 HR 18	1	5/0	1 x 75 cm	Violet	DX 0257	
	1.5	4/0	1 x 75 cm	Violet	DX 0258	
	2	3/0	1 x 75 cm	Violet	DX 0259	
 2 x HR 18	1	5/0	1 x 75 cm	Violet	DX 5250	
	1.5	4/0	1 x 90 cm	Violet	DX 5251	
 HR 20	1	5/0	1 x 75 cm	Violet	DX 0360	
	1.5	4/0	1 x 75 cm	Violet	DX 0256	
 HR 22	1.5	4/0	1 x 75 cm	Violet	DX 0261	
	2	3/0	1 x 75 cm	Violet	DX 0262	
	3	2/0	1 x 75 cm	Violet	DX 0263	
 2 x HR 22	1.5	4/0	1 x 75 cm	Violet	DX 5261	
	2	3/0	1 x 75 cm	Violet	DX 5262	
	2	3/0	1 x 90 cm	Violet	DX 5264	
 HR 26	2	3/0	1 x 75 cm	Violet	DX 0366	
	3	2/0	1 x 75 cm	Violet	DX 0365	
 2 x HR 26	3	2/0	1 x 75 cm	Violet	DX 5269	
	1.5	4/0	1 x 90 cm	Violet	DX 5271	
	2	3/0	1 x 90 cm	Violet	DX 5270	

# POLYDOX monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
 HR 27	1.5	4/0	1 x 75 cm	Violet	DX 0265	
	2	3/0	1 x 75 cm	Violet	DX 0266	
	3	2/0	1 x 75 cm	Violet	DX 0267	
	3.5	0	1 x 75 cm	Violet	DX 0268	
	4	1	1 x 75 cm	Violet	DX 0369	
 2 x HR 27	1.5	4/0	1 x 75 cm	Violet	DX 5265	
	2	3/0	1 x 75 cm	Violet	DX 5266	
	3	2/0	1 x 75 cm	Violet	DX 5267	
 2 x HR 27	1.5	4/0	1 x 90 cm	Violet	DX 5295	
	2	3/0	1 x 120 cm	Violet	DX 5297	
 HR 30	1.5	4/0	1 x 75 cm	Violet	DX 0269	
	2	3/0	1 x 75 cm	Violet	DX 0270	
	3	2/0	1 x 75 cm	Violet	DX 0271	
	3.5	0	1 x 75 cm	Violet	DX 0272	
	4	1	1 x 75 cm	Violet	DX 0273	
 2 x HR 30	2	3/0	1 x 90 cm	Violet	DX 5275	
 HR 37	2	3/0	1 x 75 cm	Violet	DX 0264	
	3.5	0	1 x 75 cm	Violet	DX 0356	
 HR 40	3	2/0	1 x 75 cm	Violet	DX 0275	
	3.5	0	1 x 75 cm	Violet	DX 0276	
	4	1	1 x 75 cm	Violet	DX 0277	
 HR 40	3	2/0	1 x 90 cm	Violet	DX 0375	
	4	1	1 x 90 cm	Violet	DX 0377	
	4	1	1 x 150 cm	Violet	DX 0279	
 HR 45	5	2	1 x 90 cm	Violet	DX 0378	


















# POLYDOX monofilament

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Absorbable - Polydox monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 50 	4	1	1 x 90 cm	Violet	DX 0380	
HR 65 	4	1	1 x 150 cm	Violet	DX 4547	Loop
	4	1	1 x 250 cm	Violet	DX 4546	Loop
<b>HR s: ½ circle, round body needle - slim</b>						
HR s 18 	1.5	4/0	1 x 75 cm	Violet	DX 1256	Slim needle
HR s 22 	2	3/0	1 x 75 cm	Violet	DX 1262	Slim needle
HR s 27 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	DX 1272 DX 1273	Slim needle
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 27 	3 3.5 4	2/0 0 1	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	DX 0430 DX 0431 DX 0432	
HRX 35 	3.5 4	0 1	1 x 75 cm 1 x 75 cm	Violet Violet	DX 0281 DX 0282	
	3.5	0	1 x 90 cm	Violet	DX 0381	
HRX 37 	4	1	1 x 90 cm	Violet	DX 0384	

## POLYDOX monofilament








Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRX: ½ circle, round body needle - extra strong</b>						
 <p>HRX 40</p>	3.5	0	1 x 75 cm	Violet	DX 0285	
	3.5	0	1 x 90 cm	Violet	DX 0385	
	4	1	1 x 90 cm	Violet	DX 0386	
	5	2	1 x 90 cm	Violet	DX 0387	
	3.5	0	1 x 150 cm	Violet	DX 4035	Loop
	4	1	1 x 150 cm	Violet	DX 4040	Loop
 <p>HRX 45</p>	4	1	1 x 90 cm	Violet	DX 0390	
	5	2	1 x 90 cm	Violet	DX 0391	
 <p>HRX 48</p>	3.5	0	1 x 90 cm	Violet	DX 0400	
	3.5	0	1 x 150 cm	Violet	DX 4135	Loop
	4	1	1 x 150 cm	Violet	DX 4140	Loop
 <p>HRX 50</p>	3.5	0	1 x 90 cm	Violet	DX 0394	
	4	1	1 x 90 cm	Violet	DX 0395	
	5	2	1 x 90 cm	Violet	DX 0396	
	3.5	0	1 x 150 cm	Violet	DX 1392	Loop
	3.5	0	1 x 150 cm	Violet	DX 4535	Loop
	4	1	1 x 150 cm	Violet	DX 4540	Loop
	5	2	1 x 150 cm	Violet	DX 4550	Loop
4	1	1 x 200 cm	Violet	DX 4542	Loop	
 <p>HRX 70</p>	4	1	1 x 150 cm	Violet	DX 4543	Loop



# POLYDOX monofilament











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Absorbable - Polydox monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 25 	2	3/0	1 x 75 cm	Violet	DX 0581	
HRT 26 	3	2/0	1 x 75 cm	Violet	DX 0572	
HRT 37 	4	1	1 x 90 cm	Violet	DX 0599	
HRT 48 	4	1	1 x 90 cm	Violet	DX 0608	
<b>HRTX: ½ circle, round body needle – tapercut, extra strong</b>						
HRTX 40 	4	1	1 x 90 cm	Violet	DX 0610	
<b>HRF: ½ circle, flattened body needle, taper point</b>						
HRF 26 	2 3 3.5	3/0 2/0 0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	DX 9266 DX 9267 DX 9268	
HRF 31 	3	2/0	1 x 75 cm	Violet	DX 9271	

# POLYDOX monofilament









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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DR: 3/8 circle, round body needle</b>						
2 x DR 10 	0.7	6/0	1 x 75 cm	Violet	DX 1120	
DR 12 	1 1.5	5/0 4/0	1 x 75 cm 1 x 75 cm	Violet Violet	DX 0120 DX 0121	
DR 17 	1.5	4/0	1 x 75 cm	Violet	DX 0132	
DR 20 	1.5 3	4/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	DX 0141 DX 0143	
<b>DRT: 3/8 circle, round body needle - tapercut</b>						
DRT 13 	1	5/0	1 x 75 cm	Violet	DX 0521	
<b>FR: 5/8 circle, round body needle</b>						
2 x FR 27 	3	2/0	1 x 75 cm	Violet	DX 5367	
FR 65 	3.5	0	1 x 150 cm	Violet	DX 4635	Loop
<b>GR: Straight, round body needle</b>						
2 x GR 60 	2	3/0	1 x 75 cm	Violet	DX 5396	
<b>KR: Ski, round body needle</b>						
KR 27 	2	3/0	1 x 40 cm	Violet	DX 4630	Loop
<b>JRT: Hook shaped, round body needle - tapercut</b>						
JRT 30 	4	1	1 x 75 cm	Violet	DX 0694	







# POLYDOX monofilament

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Absorbable - Polydox monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HS: ½ circle, reverse cutting needle</b>						
HS 18 	1.5	4/0	1 x 75 cm	Violet	DX 0155	
HS 21 	2	3/0	1 x 75 cm	Violet	DX 0166	
HS 22 	2 3	3/0 2/0	1 x 45 cm 1 x 45 cm	Violet Violet	DX 0167 DX 0170	
HS 27 	3	2/0	1 x 75 cm	Violet	DX 0168	
HS 30 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Violet Violet	DX 0171 DX 0172	
HS 37 	3 3.5 4	2/0 0 1	1 x 75 cm 1 x 75 cm 1 x 75 cm	Violet Violet Violet	DX 0177 DX 0178 DX 0179	
	3.5	0	1 x 90 cm	Violet	DX 1178	
HS 40 	4	1	1 x 75 cm	Violet	DX 0180	
HS 48 	4	1	1 x 90 cm	Violet	DX 0184	

## POLYDOX monofilament





Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 15 	1	5/0	1 x 45 cm	Violet	DX 0190	
	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Violet Violet	DX 0196 DX 0197	
DS 16 	1	5/0	1 x 45 cm	Violet	DX 0198	
DS 19 	1	5/0	1 x 45 cm	Violet	DX 0210	
	1.5	4/0	1 x 45 cm	Violet	DX 0211	
	2	3/0	1 x 45 cm	Violet	DX 0212	
	1.5	4/0	1 x 75 cm	Violet	DX 0215	
	2	3/0	1 x 75 cm	Violet	DX 0216	
DS 25 	2	3/0	1 x 45 cm	Violet	DX 0222	
	3	2/0	1 x 45 cm	Violet	DX 0223	
	1.5	4/0	1 x 75 cm	Violet	DX 0226	
	2	3/0	1 x 75 cm	Violet	DX 0227	
	3	2/0	1 x 75 cm	Violet	DX 0228	
DS 30 	3.5	0	1 x 75 cm	Violet	DX 0229	
	4	1	1 x 75 cm	Violet	DX 0230	
	3	2/0	1 x 75 cm	Violet	DX 0232	
	3.5	0	1 x 75 cm	Violet	DX 0234	
	4	1	1 x 75 cm	Violet	DX 0235	
<b>DSC: 3/8 circle, conventional cutting needle</b>						
DSC 25 	3	2/0	1 x 75 cm	Violet	DX 8228	



# POLYDOX monofilament

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Absorbable - Polydox monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
DSM 12 	0.7 1	6/0 5/0	1 x 45 cm 1 x 45 cm	Violet Violet	DX 0201 DX 0202	Advanced cutting needle
DSM 15 	1.5	4/0	1 x 45 cm	Violet	DX 0206	Advanced cutting needle
DSM 19 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Violet Violet	DX 0207 DX 0208	Advanced cutting needle
<b>GS: Straight, reverse cutting needle</b>						
2 x GS 65 	2	3/0	1 x 75 cm	Violet	DX 3242	
<b>Minimal invasive surgery</b>						
	3.5 4	0 1	1 x 70 cm 1 x 70 cm	Violet Violet	MS 0134 MS 0135	Loop Loop



# Non-absorbable

Chiraflon monofilament

Chiralen monofilament

Silon monofilament

Tervalon braided

Silon braided

Silk braided

Non-absorbable

Non-absorbable

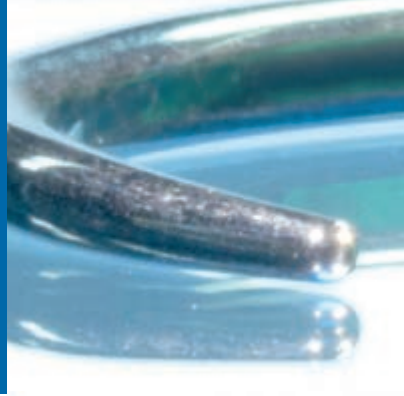


# Chiraflon monofilament

Chiraflon

Chiraflon

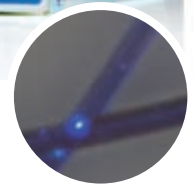
Chiraflon



## CHIRAFLON monofilament

CHIRAFLON monofilament is a non-absorbable suture made of PVDF (similar to teflon). Physiologically this thread is completely inert.

Chiraflon monofilament offers optimal smoothness and superior knotting properties. The thread is characterised by its high tensile strength. No splitting occurs even under considerable strain.



**Indication:** All surgical specialities, especially Orthopaedic, Traumatology (tendons), Plastic and Ophthalmic surgery.

**Contraindication:** Chiraflon monofilament must not penetrate into the inner parts of the digestive and urinary tracts.

**Chemical Composition:** Polyvinylidene Fluoride (PVDF)

**Sizes:** 8/0 to 3 USP

**Structure:** Monofilament

**Absorption method:** Non-absorbable











**Colour:** Blue



# CHIRAFLON monofilament










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Non-absorbable - Chiraflon monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 13 	1	5/0	1 x 45 cm	Blue	TF 6202	
HR 18 	1	5/0	1 x 45 cm	Blue	TF 6211	
	1.5	4/0	1 x 45 cm	Blue	TF 6214	
2 x HR 18 	1	5/0	1 x 75 cm	Blue	TF 6216	
	1.5	4/0	1 x 75 cm	Blue	TF 6217	
HR 27 	3	2/0	1 x 75 cm	Blue	TF 6221	
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 40 	3.5	0	1 x 90 cm	Blue	TF 6251	
HRX 50 	4	1	1 x 150 cm	Blue	TF 4540	Loop
	3.5	0	1 x 200 cm	Blue	TF 5035	Loop
	4	1	1 x 200 cm	Blue	TF 5040	Loop
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 13 	0.7	6/0	1 x 45 cm	Blue	TF 6421	
2 x HRT 17 	1	5/0	1 x 75 cm	Blue	TF 6332	
<b>DRT: 3/8 circle, round body needle - tapercut</b>						
2 x DRT 10 	0.7	6/0	1 x 75 cm	Blue	TF 6301	
2 x DRT 13 	0.7	6/0	1 x 75 cm	Blue	TF 6311	
	1	5/0	1 x 75 cm	Blue	TF 6312	

# CHIRAFLON monofilament





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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>GR: Straight, round body needle</b>						
GR 20 	1.5	4/0	1 x 45 cm	Blue	TF 6411	
	2	3/0	1 x 45 cm	Blue	TF 6412	
GR 60 	2	3/0	1 x 75 cm	Blue	TF 6462	
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 12 	0.7	6/0	1 x 45 cm	Blue	TF 6101	
	1	5/0	1 x 45 cm	Blue	TF 6102	
DS 15 	1	5/0	1 x 45 cm	Blue	TF 6105	
	1.5	4/0	1 x 45 cm	Blue	TF 6106	
DS 19 	1	5/0	1 x 45 cm	Blue	TF 6110	
	1.5	4/0	1 x 45 cm	Blue	TF 6115	
	2	3/0	1 x 45 cm	Blue	TF 6116	
	3	2/0	1 x 45 cm	Blue	TF 6117	
	1.5	4/0	1 x 75 cm	Blue	TF 6111	
	2	3/0	1 x 75 cm	Blue	TF 6112	
3	2/0	1 x 75 cm	Blue	TF 6113		
DS 25 	2	3/0	1 x 45 cm	Blue	TF 6126	
	3.5	0	1 x 45 cm	Blue	TF 6128	
DS 25 	2	3/0	1 x 75 cm	Blue	TF 6122	
	3	2/0	1 x 75 cm	Blue	TF 6123	
DS 30 	3	2/0	1 x 75 cm	Blue	TF 6131	
	3.5	0	1 x 75 cm	Blue	TF 6132	
	4	1	1 x 75 cm	Blue	TF 6133	
DS 38 	2	3/0	1 x 75 cm	Blue	TF 6140	



# CHIRAFLON monofilament

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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
DSM 12 	0.7	6/0	1 x 45 cm	Blue	TF 6001	Advanced cutting needle
	1	5/0	1 x 45 cm	Blue	TF 6002	
	1.5	4/0	1 x 45 cm	Blue	TF 6003	
DSM 15 	1	5/0	1 x 45 cm	Blue	TF 6005	Advanced cutting needle
	1.5	4/0	1 x 45 cm	Blue	TF 6006	
	1	5/0	1 x 75 cm	Blue	TF 6008	
DSM 19 	1.5	4/0	1 x 75 cm	Blue	TF 6011	Advanced cutting needle
	2	3/0	1 x 75 cm	Blue	TF 6012	
<b>GS: Straight, reverse cutting needle</b>						
GS 60 	3	2/0	1 x 75 cm	Blue	TF 6167	

Non-absorbable - Chiraflon monofilament



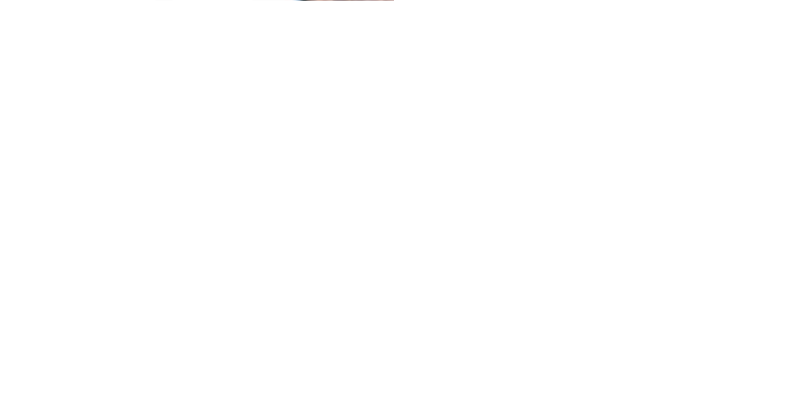
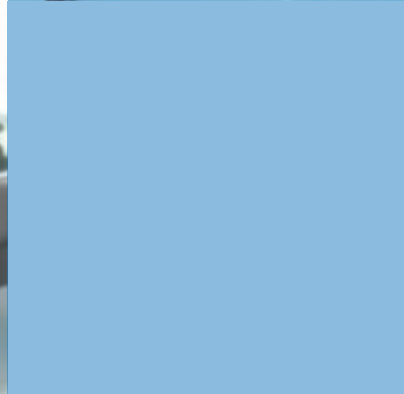
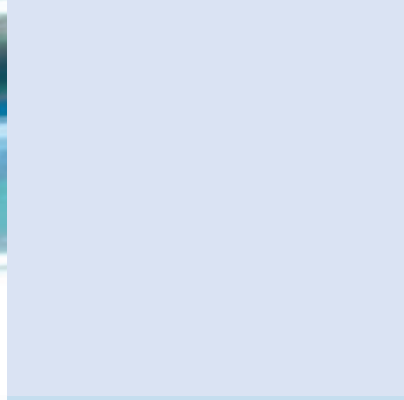
Chiralen

**Chiralen  
monofilament**

Chiralen

Chiralen

Chiralen



## CHIRALEN monofilament

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CHIRALEN monofilament is a non-absorbable suture made of polypropylene. The thread is hydrophobic and is not subject to degradation by tissue enzymes.

Chiralen monofilament has a smooth, non-porous surface, that guarantees a clean and smooth passage through the tissue, optimal elasticity, good elongation properties and high visibility. In tissues, it can cause a minimal acute inflammatory reaction.



**Indication:** All surgical specialities, especially Cardiovascular, Plastic, Reconstructive, Ophthalmic, Orthopaedic and Traumatology (e.g. tendons).

**Contraindication:** Chiralen monofilament must not penetrate into the inner parts of the digestive and urinary tracts.

**Chemical Composition:** Polypropylene

**Sizes:** 10/0 to 2 USP

**Structure:** Monofilament

**Absorption method:** Non-absorbable














**Colour:** Blue and Black














# CHIRALEN monofilament

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Non-absorbable - Chiralen monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
2 x HR 8 	0.5	7/0	1 x 45 cm	Blue	PP 5205	
HR 10 	0.7	6/0	1 x 45 cm	Blue	PP 5142	
	0.7	6/0	1 x 45 cm	Blue	PP 5210	
	1	5/0	1 x 45 cm	Blue	PP 5211	
2 x HR 10 	1	5/0	1 x 60 cm	Blue	PP 6211	
	0.5	7/0	1 x 75 cm	Blue	PP 5209	
HR 13 	0.7	6/0	1 x 75 cm	Blue	PP 5145	
	1	5/0	1 x 75 cm	Blue	PP 5146	
2 x HR 13 	1	5/0	1 x 45 cm	Blue	PP 5220	
2 x HR 15 	0.7	6/0	1 x 75 cm	Blue	PP 5219	
	1	5/0	1 x 75 cm	Blue	PP 5222	
	1.5	4/0	1 x 75 cm	Blue	PP 5223	
2 x HR 15 	1.5	4/0	1 x 90 cm	Blue	PP 5228	
HR 17 	1	5/0	1 x 90 cm	Blue	PP 5558	
2 x HR 17 	1	5/0	1 x 75 cm	Blue	PP 5236	
2 x HR 17 	1	5/0	1 x 90 cm	Blue	PP 5248	
	1.5	4/0	1 x 90 cm	Blue	PP 5244	
HR 18 	1	5/0	1 x 75 cm	Blue	PP 5152	
	1.5	4/0	1 x 75 cm	Blue	PP 5153	
	2	3/0	1 x 75 cm	Blue	PP 5154	
2 x HR 18 	1	5/0	1 x 75 cm	Blue	PP 5233	
	1.5	4/0	1 x 75 cm	Blue	PP 5234	
	2	3/0	1 x 75 cm	Blue	PP 5235	
2 x HR 18 	1	5/0	1 x 90 cm	Blue	PP 5237	
	1.5	4/0	1 x 90 cm	Blue	PP 5238	
	2	3/0	1 x 90 cm	Blue	PP 5239	

## CHIRALEN monofilament









Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
2 x HR 20 	1.5	4/0	1 x 90 cm	Blue	PP 5251	
HR 22 	1	5/0	1 x 75 cm	Blue	PP 5158	
	1.5	4/0	1 x 75 cm	Blue	PP 5157	
	2	3/0	1 x 75 cm	Blue	PP 5156	
	3	2/0	1 x 75 cm	Blue	PP 5155	
2 x HR 22 	1.5	4/0	1 x 90 cm	Blue	PP 5557	
	2	3/0	1 x 75 cm	Blue	PP 5249	
2 x HR 22 	3	2/0	1 x 75 cm	Blue	PP 5250	
	1.5	4/0	1 x 90 cm	Blue	PP 5246	
2 x HR 22 	2	3/0	1 x 90 cm	Blue	PP 5247	
	3	2/0	1 x 90 cm	Blue	PP 5559	
HR 25 	3	2/0	1 x 90 cm	Blue	PP 5559	
HR 26 	2	3/0	1 x 75 cm	Blue	PP 5563	
	3.5	0	1 x 75 cm	Blue	PP 5562	
HR 26 	3	2/0	1 x 90 cm	Blue	PP 5564	
	2 x HR 26 	1.5	4/0	1 x 90 cm	Blue	PP 5351
2		3/0	1 x 90 cm	Blue	PP 5257	
2 x HR 26 	2	3/0	1 x 120 cm	Blue	PP 5362	
	2 x HR 26 black 	1.5	4/0	1 x 90 cm	Blue	PP 5258



# CHIRALEN monofilament

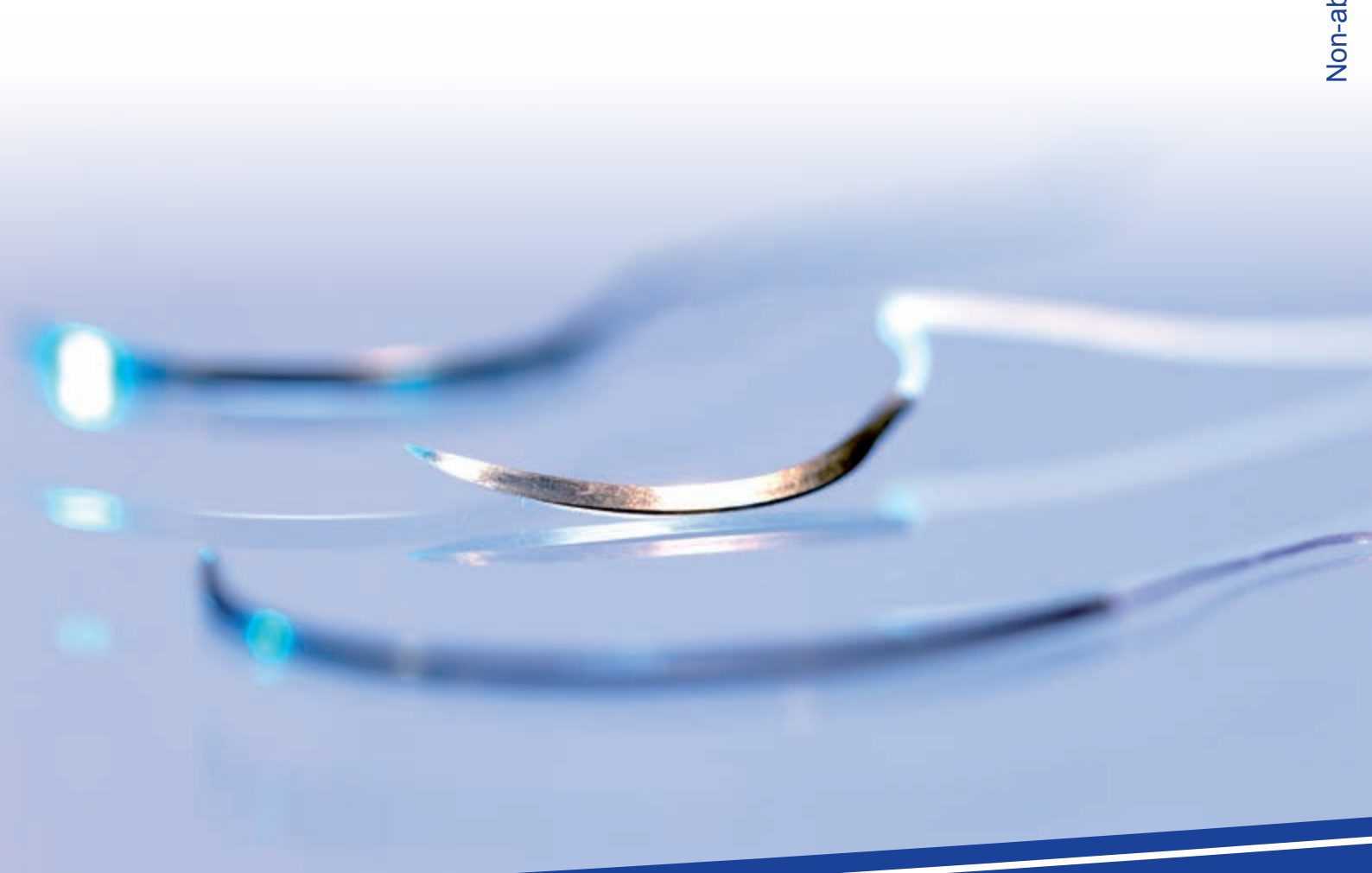
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Non-absorbable - Chiralen monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
 HR 27	2	3/0	1 x 75 cm	Blue	PP 5163	
	3	2/0	1 x 75 cm	Blue	PP 5164	
 HR 30	3.5	0	1 x 90 cm	Blue	PP 5561	
	1.5	4/0	1 x 90 cm	Blue	PP 5266	
 2 x HR 27	2	3/0	1 x 90 cm	Blue	PP 5267	
	3	2/0	1 x 90 cm	Blue	PP 5255	
	2	3/0	1 x 120 cm	Blue	PP 5354	
 2 x HR 30	3	2/0	1 x 75 cm	Blue	PP 5165	
	3.5	0	1 x 75 cm	Blue	PP 5166	
	4	1	1 x 75 cm	Blue	PP 5167	
 HR 37	3	2/0	1 x 90 cm	Blue	PP 5261	
	3.5	0	1 x 100 cm	Blue	PP 5169	
 HR 40	3	2/0	1 x 75 cm	Blue	PP 5185	
	4	1	1 x 100 cm	Blue	PP 5968	
<b>HR s: ½ circle, round body needle - slim</b>						
 2 x HR s 18 Black	1	5/0	1 x 75 cm	Blue	PP 5965	Slim black needles
 2 x HR s 22	1.5	4/0	1 x 75 cm	Blue	PP 5975	Slim needles








## CHIRALEN monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 35 	3.5 4	0 1	1 x 75 cm 1 x 75 cm	Blue Blue	PP 5373 PP 5372	
HRX 40 	4	1	1 x 90 cm	Blue	PP 5386	
2 x HRX 50 	3	2/0	1 x 120 cm	Blue	PP 5491	



# CHIRALEN monofilament

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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRT: ½ circle, round body needle - tapercut</b>						
2 x HRT 10 	0.5	7/0	1 x 60 cm	Blue	PP 5336	
HRT 11 	1	5/0	1 x 60 cm	Blue	PP 5421	
HRT 13 	1	5/0	1 x 75 cm	Blue	PP 5422	
2 x HRT 13 	0.7 1	6/0 5/0	1 x 75 cm 1 x 75 cm	Blue Blue	PP 5321 PP 5322	
HRT 17 	1.5	4/0	1 x 75 cm	Blue	PP 5433	
2 x HRT 17 	1	5/0	1 x 75 cm	Blue	PP 5332	
	1.5	4/0	1 x 75 cm	Blue	PP 5333	
	2	3/0	1 x 75 cm	Blue	PP 5334	
2 x HRT 17 	1	5/0	1 x 90 cm	Blue	PP 5932	
	1.5	4/0	1 x 90 cm	Blue	PP 5933	
	2	3/0	1 x 90 cm	Blue	PP 5934	

Non-absorbable - Chiralen monofilament





# CHIRALEN monofilament










Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 25 	3	2/0	1 x 75 cm	Blue	PP 5445	
2 x HRT 25 	3	2/0	1 x 75 cm	Blue	PP 5345	
	1.5	4/0	1 x 90 cm	Blue	PP 5943	
	2	3/0	1 x 90 cm	Blue	PP 5944	
	3	2/0	1 x 90 cm	Blue	PP 5945	
2 x HRT 27 	2	3/0	1 x 90 cm	Blue	PP 5952	
HRT 37 	3.5	0	1 x 75 cm	Blue	PP 5466	
<b>DR: 3/8 circle, round body needle</b>						
2 x DR 8 	0.4	8/0	1 x 75 cm	Blue	PP 5282	
	0.5	7/0	1 x 60 cm	Blue	PP 5905	
2 x DR 9.3 	0.5	7/0	1 x 60 cm	Blue	PP 5921	
2 x DR 9.3 Black 	0.7	6/0	1 x 60 cm	Blue	PP 5920	Black needles
DR 10 	0.5	7/0	1 x 75 cm	Blue	PP 5212	
	0.7	6/0	1 x 75 cm	Blue	PP 5213	
	0.7	6/0	1 x 45 cm	Blue	PP 5215	
2 x DR 10 	0.5	7/0	1 x 60 cm	Blue	PP 5913	
	0.7	6/0	1 x 60 cm	Blue	PP 5915	
	0.7	6/0	1 x 75 cm	Blue	PP 5914	
DR 12 	0.7	6/0	1 x 75 cm	Blue	PP 5413	
	1.5	4/0	1 x 75 cm	Blue	PP 5415	



# CHIRALEN monofilament









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Non-absorbable - Chiralen monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DR: 3/8 circle, round body needle</b>						
2 x DR 12 	0.5	7/0	1 x 60 cm	Blue	PP 5227	
	0.7	6/0	1 x 60 cm	Blue	PP 5229	
DR 13 	0.7	6/0	1 x 75 cm	Blue	PP 5416	
	1	5/0	1 x 75 cm	Blue	PP 5224 PP 5225	
2 x DR 13 	0.5	7/0	1 x 45 cm	Blue	PP 5404	
	0.7	6/0	1 x 60 cm	Blue	PP 5328	
	1	5/0	1 x 60 cm	Blue	PP 5403	
	0.7	6/0	1 x 75 cm	Blue	PP 5324	
2 x DR 15 	1	5/0	1 x 75 cm	Blue	PP 5331	
DR 17 	1	5/0	1 x 75 cm	Blue	PP 5226	
DR 18 	1.5	4/0	1 x 90 cm	Blue	PP 5431	
2 x DR 18 	1	5/0	1 x 75 cm	Blue	PP 5535	
	1.5	4/0	1 x 75 cm	Blue	PP 5923 PP 5924	
2 x DR 18 	1.5	4/0	1 x 90 cm	Blue	PP 5928	
	2	3/0	1 x 75 cm	Blue	PP 5426	
2 x DR 30 	2	3/0	1 x 75 cm	Blue	PP 5426	














# CHIRALEN monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DRT: 3/8 circle, round body needle - tapercut</b>						
2 x DRT 10 	0.5	7/0	1 x 60 cm	Blue	PP 5298	
	0.7	6/0	1 x 75 cm	Blue	PP 5301	
2 x DRT 10 Black 	0.5	7/0	1 x 75 cm	Blue	PP 5902	Black needles
2 x DRT 11 	0.7	6/0	1 x 60 cm	Blue	PP 5296	
DRT 13 	0.7 1	6/0 5/0	1 x 75 cm 1 x 75 cm	Blue Blue	PP 5309 PP 5310	
2 x DRT 13 	0.7	6/0	1 x 60 cm	Blue	PP 5911	
	0.7 1	6/0 5/0	1 x 75 cm 1 x 75 cm	Blue Blue	PP 5311 PP 5312	
2 x DRT 17 	1	5/0	1 x 90 cm	Blue	PP 5314	
<b>GR: Straight, round body needle</b>						
GR 45 	3	2/0	1 x 45 cm	Blue	PP 5545	
	3	2/0	1 x 75 cm	Blue	PP 6245	
2 x GR 60 	3	2/0	1 x 100 cm	Blue	PP 5575	







# CHIRALEN monofilament

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Non-absorbable - Chiralen monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HS: ½ circle, reverse cutting needle</b>						
2 x HS 25 	3	2/0	1 x 90 cm	Blue	PP 6445	
HS 40 	3.5	0	1 x 75 cm	Blue	PP 6845	
HS 50 	3.5	0	1 x 75 cm	Blue	PP 6855	
	4	1	1 x 90 cm	Blue	PP 6955	
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 12 	0.7	6/0	1 x 45 cm	Blue	PP 5101	
	1	5/0	1 x 45 cm	Blue	PP 5102	
DS 15 	0.7	6/0	1 x 45 cm	Blue	PP 5105	
	1	5/0	1 x 45 cm	Blue	PP 5106	
	1.5	4/0	1 x 45 cm	Blue	PP 5107	
DS 19 	1	5/0	1 x 75 cm	Blue	PP 4108	
	1.5	4/0	1 x 75 cm	Blue	PP 4109	
	2	3/0	1 x 75 cm	Blue	PP 4110	
DS 19 	1	5/0	1 x 45 cm	Blue	PP 5509	
	1.5	4/0	1 x 45 cm	Blue	PP 5510	
	2	3/0	1 x 45 cm	Blue	PP 5511	
DS 19 	1	5/0	1 x 75 cm	Blue	PP 5109	
	1.5	4/0	1 x 75 cm	Blue	PP 5110	
	2	3/0	1 x 75 cm	Blue	PP 5111	
	3	2/0	1 x 75 cm	Blue	PP 5112	
DS 24 	3.5	0	1 x 75 cm	Blue	PP 5113	
	2	3/0	1 x 90 cm	Blue	PP 5519	
DS 25 	1.5	4/0	1 x 45 cm	Blue	PP 5515	
	2	3/0	1 x 45 cm	Blue	PP 5516	
	3	2/0	1 x 45 cm	Blue	PP 5517	
DS 25 	1.5	4/0	1 x 75 cm	Blue	PP 5115	
	2	3/0	1 x 75 cm	Blue	PP 5116	
	3	2/0	1 x 75 cm	Blue	PP 5117	
	3.5	0	1 x 75 cm	Blue	PP 5118	

# CHIRALEN monofilament






Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
 <p>DS 30</p>	2	3/0	1 x 75 cm	Blue	PP 5120	
	3	2/0	1 x 75 cm	Blue	PP 5121	
	3.5	0	1 x 75 cm	Blue	PP 5122	
 <p>DS 38</p>	2	3/0	1 x 75 cm	Blue	PP 5130	
	3	2/0	1 x 75 cm	Blue	PP 5131	
	3.5	0	1 x 75 cm	Blue	PP 5132	
	4	1	1 x 75 cm	Blue	PP 5133	
 <p>DS 40</p>	3	2/0	1 x 100 cm	Blue	PP 5139	
<b>DSC: 3/8 circle, conventional cutting needle</b>						
 <p>DSC 15</p>	0.7	6/0	1 x 45 cm	Blue	PP 8105	
 <p>DSC 26</p>	1.5	4/0	1 x 45 cm	Blue	PP 8515	
	2	3/0	1 x 45 cm	Blue	PP 8516	
 <p>DSC 90</p>	4	1	1 x 100 cm	Blue	PP 8033	



# CHIRALEN monofilament

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Non-absorbable - Chiralen monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
 DSM 12	0.5	7/0	1 x 45 cm	Blue	PP 5000	Advanced cutting needle
	0.7	6/0	1 x 45 cm	Blue	PP 5001	
	1	5/0	1 x 45 cm	Blue	PP 5002	
	1.5	4/0	1 x 45 cm	Blue	PP 5003	
 DSM 15	0.7	6/0	1 x 45 cm	Blue	PP 5005	Advanced cutting needle
	1	5/0	1 x 45 cm	Blue	PP 5006	
	1.5	4/0	1 x 45 cm	Blue	PP 5007	
 DSM 19	1	5/0	1 x 45 cm	Blue	PP 5009	Advanced cutting needle
	1.5	4/0	1 x 45 cm	Blue	PP 5010	
	2	3/0	1 x 45 cm	Blue	PP 5011	
	3	2/0	1 x 45 cm	Blue	PP 5012	
	1.5	4/0	1 x 75 cm	Blue	PP 5014	
	2	3/0	1 x 75 cm	Blue	PP 5015	
 DSM 25	2	3/0	1 x 45 cm	Blue	PP 5023	Advanced cutting needle
	3	2/0	1 x 45 cm	Blue	PP 5024	
	3.5	0	1 x 45 cm	Blue	PP 5025	
	2	3/0	1 x 75 cm	Blue	PP 5027	
	3	2/0	1 x 75 cm	Blue	PP 5028	
	<b>GS: Straight, reverse cutting needle</b>					
 GS 60	2	3/0	1 x 75 cm	Blue	PP 5140	
	3	2/0	1 x 75 cm	Blue	PP 5141	

Silon  
**Silon**  
**monofilament**

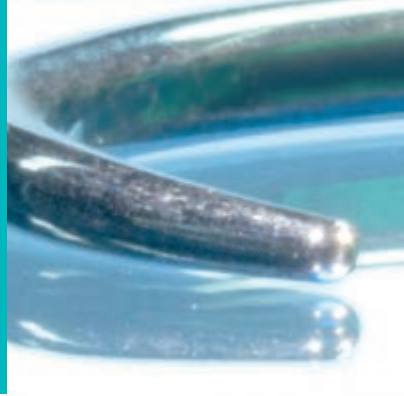
Silon monofilament

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## SILON monofilament

SILON monofilament is a non-absorbable, synthetic suture made of polyamide, which has a smooth non-porous surface.

The thread is extremely useful for skin sutures and has a high tensile strength in knots, and knots tie down easily. The thread is available in blue and black.

Silon monofilament can cause a slight initial inflammatory tissue reaction.



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**Indication:** Plastic and General surgery and wherever suturing the skin.

**Contraindication:** Silon monofilament should not be used when long-term mechanical support is required.

**Chemical Composition:** Polyamide 6

**Sizes:** 10/0 to 2 USP

**Structure:** Monofilament

**Absorption method:** Non-absorbable

**Colour:** Blue and Black



# SILON monofilament blue ligatures



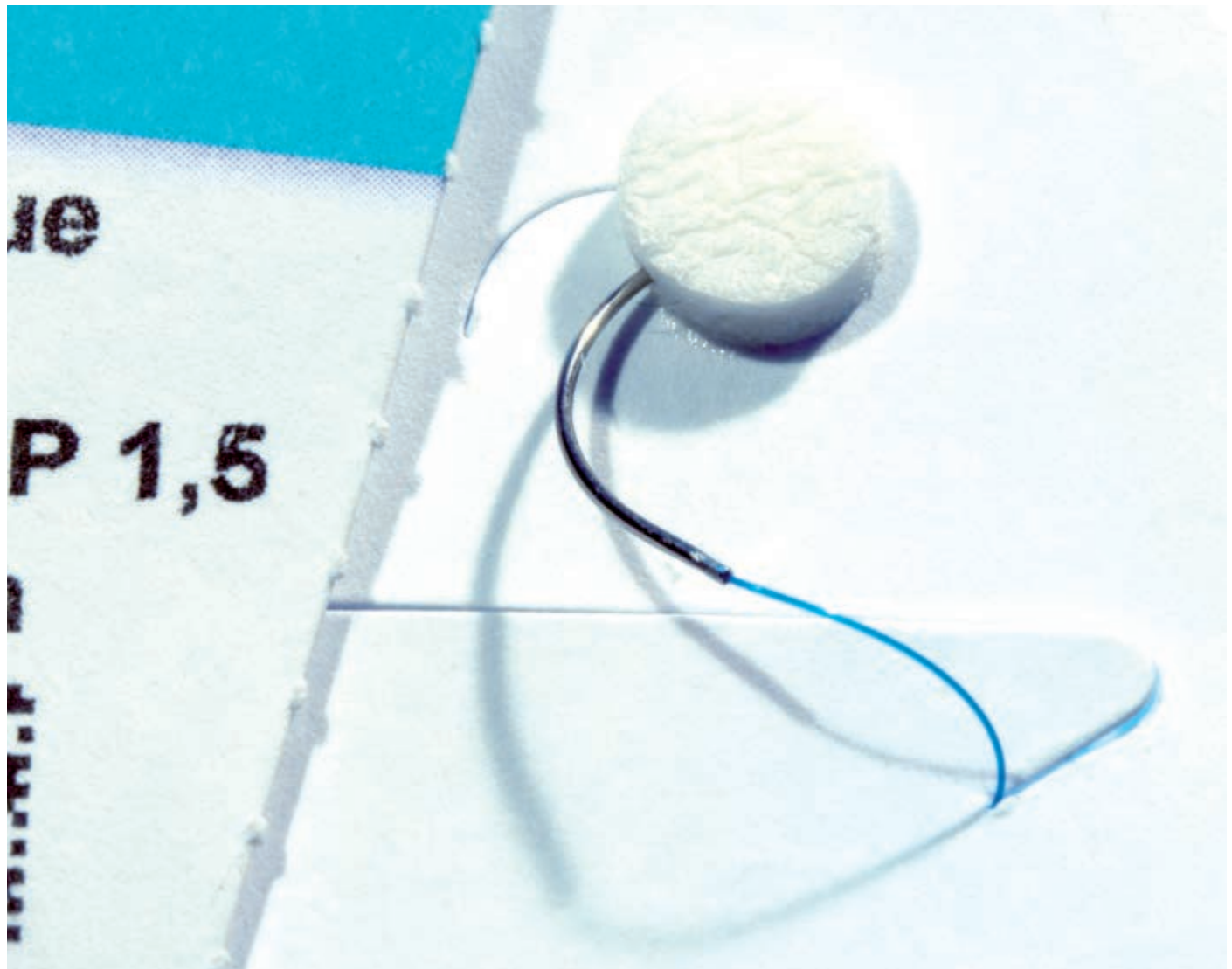
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## Pre-cut threads







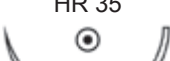




EP	USP	Length	Cat. No
1	5/0	3 x 45 cm	405
1.5	4/0	3 x 45 cm	406
2	3/0	3 x 45 cm	407
3	2/0	3 x 45 cm	408
1	5/0	<b>10 x 45 cm</b>	409
1.5	4/0	10 x 45 cm	410
2	3/0	10 x 45 cm	411
3	2/0	10 x 45 cm	412
1	5/0	<b>5 x 75 cm</b>	413
1.5	4/0	5 x 75 cm	414

## Pre-cut threads

EP	USP	Length	Cat. No
2	3/0	5 x 75 cm	415
3	2/0	5 x 75 cm	416
2	3/0	<b>2 x 100 cm</b>	1485
3.5	0	2 x 100 cm	1487
1	5/0	<b>1 x 150 cm</b>	401
1.5	4/0	1 x 150 cm	402
2	3/0	1 x 150 cm	403
3	2/0	1 x 150 cm	404
3.5	0	1 x 150 cm	1405
4	1	1 x 150 cm	1406



# SILON monofilament










Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 10 	1	5/0	1 x 45 cm	Blue	SM 2453	
HR 13 	1.5	4/0	1 x 45 cm	Blue	4125	
	0.7	6/0	1 x 60 cm	Blue	SM 4126	
HR 18 	1.5	4/0	1 x 75 cm	Blue	4104	
HR 22 	2	3/0	1 x 75 cm	Blue	4106	
HR 27 	3	2/0	1 x 75 cm	Blue	SM 4137	
HR 30 	3	2/0	1 x 75 cm	Blue	SM 4142	
HR 35 	3.5	0	1 x 75 cm	Blue	SM 4149	
HR 40 	4	1	1 x 75 cm	Blue	4152	
	3.5	0	1 x 100 cm	Blue	SM 4154	
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 35 	3.5	0	1 x 75 cm	Blue	SM 4241	
HRX 40 	4	1	1 x 150 cm	Blue	SM 5033	Loop
HRX 45 	4	1	1 x 200 cm	Blue	SM 4540	Loop













# SILON monofilament

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Non-absorbable - Silon monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 48 	4	1	1 x 150 cm	Blue	SM 5034	Loop
	4	1	1 x 200 cm	Blue	SM 5037	Loop
HRX 50 	3.5	0	1 x 150 cm	Blue	SM 5035	Loop
	4	1	1 x 200 cm	Blue	SM 5040	Loop
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 13 	0.7 1 1.5	6/0 5/0 4/0	1 x 45 cm 1 x 45 cm 1 x 45 cm	Blue Blue Blue	SM 2552 SM 2553 SM 2554	
<b>DR: 3/8 circle, round body needle</b>						
DR 8 	0.5 1	7/0 5/0	1 x 45 cm 1 x 45 cm	Blue Blue	SM 2448 450	
DR 10 	1	5/0	1 x 45 cm	Blue	451	
DR 15 	1.5	4/0	1 x 45 cm	Blue	4024	
DR 18 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Blue Blue	4003 4021	
DR 21 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Blue Blue	SM 2325 SM 2326	
DR 31 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Blue Blue	SM 2330 SM 2331	

# SILON monofilament







Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>GR: Straight, round body needle</b>						
2 x GR 60 	3.5	0	1 x 90 cm	Blue	SM 2358	
<b>HS: 1/2 circle, reverse cutting needle</b>						
HS 12 	1	5/0	1 x 45 cm	Blue	SM 2305	
	1	5/0	1 x 75 cm	Blue	SM 2306	
HS 15 	2	3/0	1 x 45 cm	Blue	SM 2308	
HS 18 	1.5	4/0	1 x 75 cm	Blue	4420	
HS 25 	2	3/0	1 x 75 cm	Blue	SM 2311	
HS 40 	4	1	1 x 75 cm	Blue	SM 2413	
	3.5	0	1 x 100 cm	Blue	SM 3382	
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 10 	0.5 0.7	7/0 6/0	1 x 45 cm 1 x 45 cm	Blue Blue	SM 2251 SM 2252	
DS 11 	0.5	7/0	1 x 45 cm	Blue	SM 2254	
DS 12 	0.5 0.7 0.7 1 1 1.5	7/0 6/0 6/0 5/0 5/0 4/0	1 x 45 cm 1 x 45 cm 1 x 45 cm 1 x 45 cm 1 x 45 cm 1 x 45 cm	Blue Blue Black Blue Black Blue	4328 SM 2255 SM 4255 SM 2256 SM 4256 SM 2257	
DS 13 	1	5/0	1 x 75 cm	Blue	SM 2248	










# SILON monofilament

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Non-absorbable - Silon monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
 DS 15	0.7	6/0	1 x 45 cm	Blue	SM 2260	
	1	5/0	1 x 45 cm	Blue	SM 2261	
	1	5/0	1 x 45 cm	Black	SM 4261	
	1.5	4/0	1 x 45 cm	Blue	SM 2262	
	2	3/0	1 x 45 cm	Blue	SM 2263	
	1.5	4/0	1 x 75 cm	Blue	SM 2362	
 DS 16	0.7	6/0	1 x 45 cm	Blue	SM 2460	
	0.7	6/0	1 x 60 cm	Blue	SM 2459	
 DS 19	0.7	6/0	1 x 45 cm	Blue	4332	
	1	5/0	1 x 45 cm	Blue	SM 2266	
	1	5/0	1 x 45 cm	Black	SM 4266	
	1.5	4/0	1 x 45 cm	Blue	SM 2367	
	2	3/0	1 x 45 cm	Blue	SM 2368	
	2	3/0	1 x 45 cm	Black	SM 4368	
	3	2/0	1 x 45 cm	Blue	SM 2369	
	1	5/0	1 x 75 cm	Blue	SM 2366	
	1.5	4/0	1 x 75 cm	Blue	SM 2267	
	2	3/0	1 x 75 cm	Blue	SM 2268	
3	2/0	1 x 75 cm	Blue	SM 2269		
	1	5/0	1 x 90 cm	Blue	SM 2466	
 DS 20	1.5	4/0	1 x 75 cm	Blue	SM 2471	
 DS 24	1.5	4/0	1 x 75 cm	Blue	SM 3277	
	2	3/0	1 x 75 cm	Blue	SM 3276	
	3	2/0	1 x 75 cm	Blue	SM 3275	
 DS 25	1.5	4/0	1 x 45 cm	Blue	SM 2372	
	1.5	4/0	1 x 45 cm	Black	SM 4372	
	2	3/0	1 x 45 cm	Blue	SM 2373	
	2	3/0	1 x 45 cm	Black	SM 4373	
	3	2/0	1 x 45 cm	Blue	SM 2374	
	3	2/0	1 x 45 cm	Black	SM 4374	
	1	5/0	1 x 75 cm	Blue	SM 2375	
	1.5	4/0	1 x 75 cm	Blue	SM 2273	
	2	3/0	1 x 75 cm	Blue	SM 2270	
	3	2/0	1 x 75 cm	Blue	SM 2271	
3.5	0	1 x 75 cm	Blue	SM 2272		
4	1	1 x 75 cm	Blue	SM 2274		
	2	3/0	1 x 90 cm	Blue	SM 3272	
	3	2/0	1 x 90 cm	Blue	SM 3271	

# SILON monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
 <p>DS 30</p>	3	2/0	1 x 45 cm	Blue	SM 2384	
	3.5	0	1 x 45 cm	Blue	SM 2385	
	1.5	4/0	1 x 75 cm	Blue	SM 4324	
	2	3/0	1 x 75 cm	Blue	4325	
 <p>DS 37</p>	3	2/0	1 x 75 cm	Blue	SM 2284	
	3.5	0	1 x 75 cm	Blue	SM 2285	
	2	3/0	1 x 90 cm	Blue	SM 4325	
	3	2/0	1 x 90 cm	Blue	SM 4326	
 <p>DS 38</p>	4	1	1 x 90 cm	Blue	SM 4327	
	3.5	0	1 x 75 cm	Blue	SM 2290	
	2	3/0	1 x 75 cm	Blue	SM 2291	
	3	2/0	1 x 75 cm	Blue	SM 2292	
 <p>DS 40</p>	4	1	1 x 75 cm	Blue	SM 2293	
	3	2/0	1 x 90 cm	Blue	SM 3291	
	3	2/0	1 x 90 cm	Blue	SM 2497	
	3.5	0	1 x 90 cm	Blue	SM 2495	
 <p>DS 50</p>	4	1	1 x 100 cm	Blue	SM 2693	
	4	1	1 x 100 cm	Blue	SM 2693	
 <p>DS 60</p>	3	2/0	1 x 100 cm	Blue	SM 3388	
	4	1	1 x 100 cm	Blue	SM 3390	
 <p>DS 90</p>	4	1	1 x 100 cm	Blue	SM 3395	
	4	1	1 x 100 cm	Blue	SM 3395	

# SILON monofilament

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Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DSC: 3/8 circle, conventional cutting needle</b>						

DSC 90



3	2/0	1 x 100 cm	Blue	SM 8397
3.5	0	1 x 100 cm	Blue	SM 8394

## DSM: 3/8 circle, reverse cutting needle - micropoint

DSM 12



0.7	6/0	1 x 45 cm	Blue	SM 2055
1	5/0	1 x 45 cm	Blue	SM 2056
1.5	4/0	1 x 45 cm	Blue	SM 2057
1.5	4/0	1 x 45 cm	Black	SM 4057
1	5/0	1 x 75 cm	Blue	SM 2053

Advanced cutting needle

DSM 15



1	5/0	1 x 45 cm	Blue	SM 2060
1.5	4/0	1 x 45 cm	Blue	SM 2061
2	3/0	1 x 45 cm	Blue	SM 2062

Advanced cutting needle

DSM 19



1	5/0	1 x 45 cm	Blue	SM 2064
1.5	4/0	1 x 45 cm	Blue	SM 2065
2	3/0	1 x 45 cm	Blue	SM 2066
1	5/0	1 x 75 cm	Blue	SM 2166
2	3/0	1 x 75 cm	Blue	SM 2168

Advanced cutting needle

DSM 25



1.5	4/0	1 x 45 cm	Blue	SM 2073
2	3/0	1 x 45 cm	Blue	SM 2074
2	3/0	1 x 75 cm	Blue	SM 2078
3	2/0	1 x 75 cm	Blue	SM 2079

Advanced cutting needle

DSM 40



3	2/0	1 x 75 cm	Blue	SM 2090
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Advanced cutting needle

## DSMC: 3/8 circle, conventional cutting needle - micropoint

DSMC 19



1	5/0	1 x 100 cm	Blue	SM 8081
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Advanced cutting needle

DSMC 20



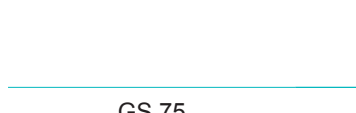


1.5	4/0	1 x 45 cm	Blue	SM 8065
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Advanced cutting needle



# SILON monofilament

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>GS: Straight, reverse cutting needle</b>						
GS 50 	3	2/0	1 x 90 cm	Blue	SM 3295	
GS 60 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Blue Blue	SM 3283 SM 3284	
GS 75 	3	2/0	1 x 90 cm	Blue	SM 3294	
	3.5	0	1 x 75 cm	Blue	SM 3299	
<b>Minimal invasive surgery</b>						
	3.5	0	1 x 70 cm	Blue	MS 1124	Loop





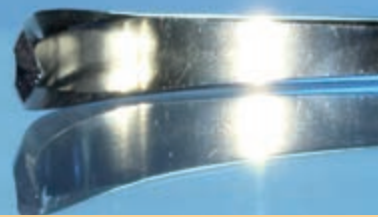
Tervalon

**Tervalon  
braided**

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Tervalon



## TERVALON braided

TERVALON braided is a polyester suture material with a special coating, which guarantees effortless tissue passage and excellent knot-tying characteristics.

The extreme tensile strength and tissue compatibility are further positive characteristics of Tervalon braided, which is used in all areas of surgery due to its favourable features.

Tervalon braided is applicable wherever non-absorbability and low-friction passage through tissues are needed.

The suture elicits a minimal inflammatory reaction in tissues, which is followed by gradual encapsulation of the suture by fibrous connective tissue.



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**Indication:** Whenever non-absorbability and low friction passage through tissues are needed. It is especially useful in suturing Tendons, Schwann sheaths and skin in Plastic and Reconstructive surgery.

**Contraindication:** Tervalon braided must not penetrate into the inner parts of the digestive and urinary tracts.

**Chemical Composition:** Polyester

**Sizes:** 6/0 to 6 USP

**Structure:** Multifilament

**Absorption method:** Non-absorbable

**Colour:** Green and White

# TERVALON braided green ligatures

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## Pre-cut threads

EP	USP	Length	Cat. No
2	3/0	10 x 30 cm	TG 4064
1	5/0	<b>3 x 45 cm</b>	TG 4032
1.5	4/0	3 x 45 cm	TG 4033
2	3/0	3 x 45 cm	TG 4034
3	2/0	3 x 45 cm	TG 4035
3.5	0	3 x 45 cm	TG 4036
4	1	3 x 45 cm	TG 4037
5	2	3 x 45 cm	TG 4038
1.5	4/0	<b>6 x 45 cm</b>	TG 4043
2	3/0	6 x 45 cm	TG 4044
3	2/0	6 x 45 cm	TG 4045
3.5	0	6 x 45 cm	TG 4046
4	1	6 x 45 cm	TG 4047
5	2	6 x 45 cm	TG 4048
1.5	4/0	<b>10 x 45 cm</b>	TG 4053
2	3/0	10 x 45 cm	TG 4054
3	2/0	10 x 45 cm	TG 4055
3.5	0	10 x 45 cm	TG 4056
4	1	10 x 45 cm	TG 4057
5	2	10 x 45 cm	TG 4058
3.5	0	<b>15 x 45 cm</b>	TG 4142
6	3 + 4	<b>4 x 60 cm</b>	TG 4099
2	3/0	<b>13 x 60 cm</b>	TG 4086
2	3/0	<b>2 x 70 cm</b>	TG 4014
3	2/0	2 x 70 cm	TG 4015
3.5	0	2 x 70 cm	TG 4016
4	1	2 x 70 cm	TG 4017
5	2	2 x 70 cm	TG 4018













## Pre-cut threads

EP	USP	Length	Cat. No
1.5	4/0	5 x 70 cm	TG 4080
3	2/0	5 x 70 cm	TG 4082
4	1	5 x 70 cm	TG 4084
5	2	5 x 70 cm	TG 4085
3	2/0	<b>10 x 70 cm</b>	TG 3045
3.5	0	10 x 70 cm	TG 3046
2	3/0	<b>6 x 75 cm</b>	TG 3035
3.5	0	6 x 75 cm	TG 3037
4	1	6 x 75 cm	TG 3038
3.5	0	<b>1 x 150 cm</b>	TG 4076
4	1	1 x 150 cm	TG 4077
5	2	1 x 150 cm	TG 4078
6	3 + 4	1 x 150 cm	TG 4079
7	5	1 x 150 cm	TG 4180

## Chirapack - 20 pcs./box

EP	USP	Length	Cat. No
4	1	1 x 250 cm	TG 3097
5	2	1 x 250 cm	TG 3098
1.5	4/0	<b>1 x 300 cm</b>	TG 4093
2	3/0	1 x 300 cm	TG 4094
3	2/0	1 x 300 cm	TG 4095
3.5	0	1 x 300 cm	TG 4096
4	1	1 x 300 cm	TG 4097
5	2	1 x 300 cm	TG 4098
6	3 + 4	1 x 300 cm	TG 4100

## TERVALON braided







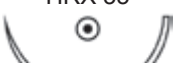


Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 13 	1 1.5	5/0 4/0	1 x 45 cm 1 x 45 cm	Green Green	TG 4452 TG 4453	
2 x HR 13 	1.5	4/0	1 x 75 cm	Green	TG 4495	
HR 18 	1.5 2 3	4/0 3/0 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Green Green Green	TG 4456 TG 4457 TG 4458	
HR 18 A 	2	3/0	1 x 45 cm	Green	TG 5447	Take-off needle
HR 22 	1.5 2 3	4/0 3/0 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Green Green Green	TG 4465 TG 4466 TG 4467	
2 x HR 22 	3	2/0	1 x 75 cm	Green	TG 4653	
	3	2/0	1 x 90 cm	Green	TG 4652	
HR 25 	2	3/0	1 x 75 cm	Green	TG 4471	
2 x HR 26 	3	2/0	1 x 90 cm	Green	TG 4650	
HR 26 A 	3	2/0	5 x 45 cm	Green	TG 5452	Take-off needle
HR 27 	2 3 3.5 4	3/0 2/0 0 1	1 x 75 cm 1 x 75 cm 1 x 75 cm 1 x 75 cm	Green Green Green Green	TG 4461 TG 4462 TG 4463 TG 4464	
HR 30 	2 3 3.5	3/0 2/0 0	1 x 75 cm 1 x 75 cm 1 x 75 cm	Green Green Green	TG 4315 TG 4316 TG 4317	
HR 35 	4	1	1 x 75 cm	Green	TG 4373	



# TERVALON braided










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Non-absorbable - Tervalon braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 37 	3.5 4	0 1	1 x 75 cm 1 x 75 cm	Green Green	TG 4377 TG 4374	
HR 40 	5	2	1 x 90 cm	Green	TG 4376	
<b>HR s: ½ circle, round body needle - slim</b>						
HR s 18 	1.5	4/0	1 x 75 cm	Green	TG 2474	Slim needle
HR s 22 	2	3/0	1 x 75 cm	Green	TG 2485	Slim needle
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 26 	3.5	0	1 x 75 cm	Green	TG 4362	
HRX 27 	5	2	1 x 75 cm	Green	TG 4365	
HRX 35 	2 3.5	3/0 0	1 x 75 cm 1 x 75 cm	Green Green	TG 4318 TG 4320	
	3.5	0	1 x 90 cm	Green	TG 4323	
HRX 50 	6	3	1 x 90 cm	Green	TG 4673	
HRX 70 	6	3 + 4	1 x 180 cm	Green	TG 7060	Loop



## TERVALON braided









Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 17 	1	5/0	1 x 45 cm	Green	TG 4622	
	1.5	4/0	1 x 45 cm	Green	TG 4623	
	2	3/0	1 x 45 cm	Green	TG 4624	
2 x HRT 17 	1.5	4/0	1 x 75 cm	Green	TG 4627	
	2	3/0	1 x 75 cm	Green	TG 4628	
	1	5/0	1 x 90 cm	Green	TG 4631	
2 x HRT 17 	1.5	4/0	1 x 90 cm	Green	TG 4632	
	2	3/0	1 x 90 cm	Green	TG 4633	
	HRT 17 A 	2	3/0	6 x 45 cm	Green	TG 4734
HRT 20 	3	2/0	1 x 75 cm	Green	TG 4635	
2 x HRT 25 	3	2/0	1 x 90 cm	Green	TG 4645	
HRT 37 	5	2	1 x 75 cm	Green	TG 4758	
HRT 45 	5	2	4 x 75 cm	Green	TG 5426	
HRT 50 	7	5	4 x 75 cm	Green	TG 5438	













# TERVALON braided

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Non-absorbable - Tervalon braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRTX: ½ circle, round body needle – tapercut, extra strong</b>						
HRTX 50 	7	5	1 x 75 cm	Green	TG 4438	
<b>DR: 3/8 circle, round body needle</b>						
DR 12 	1	5/0	1 x 45 cm	Green	TG 4326	
DR 18 	2	3/0	1 x 75 cm	Green	TG 4331	
DR 21 	3	2/0	1 x 75 cm	Green	TG 4336	
<b>DRT: 3/8 circle, round body needle - tapercut</b>						
2 x DRT 17 	2	3/0	1 x 90 cm	Green	TG 4649	
<b>FR: 5/8 circle, round body needle</b>						
FR 27 	2	3/0	1 x 45 cm	Green	TG 4499	
<b>GR: Straight, round body needle</b>						
GR 20 	1 1.5 2 3	5/0 4/0 3/0 2/0	1 x 45 cm 1 x 45 cm 1 x 45 cm 1 x 45 cm	Green Green Green Green	TG 4484 TG 4485 TG 4486 TG 4487	
<b>JRT: Hook shaped, round body needle - tapercut</b>						
JRT 30 	4	1	1 x 75 cm	Green	TG 5768	

## TERVALON braided








Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HS: ½ circle, reverse cutting needle</b>						
HS 12 	1	5/0	1 x 45 cm	Green	TG 4502	
HS 18 	1	5/0	1 x 45 cm	Green	TG 4505	
	1.5	4/0	1 x 45 cm	Green	TG 4506	
	2	3/0	1 x 45 cm	Green	TG 4507	
	1.5	4/0	1 x 75 cm	Green	TG 4508	
	2	3/0	1 x 75 cm	Green	TG 4509	
2 x HS 18 	1.5	4/0	1 x 90 cm	Green	TG 4618	
HS 21 	1.5	4/0	1 x 75 cm	Green	TG 4608	
	2	3/0	1 x 75 cm	Green	TG 4609	
HS 25 	2	3/0	1 x 75 cm	Green	TG 4511	
2 x HS 25 	3	2/0	1 x 90 cm	Green	TG 4612	
HS 36 	4	1	1 x 75 cm	Green	TG 4542	
HS 37 	3.5	0	1 x 75 cm	Green	TG 4534	
HS 50 	5	2	1 x 75 cm	Green	TG 4556	
HS 55 	6	3 + 4	1 x 75 cm	Green	TG 4567	








# TERVALON braided

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Non-absorbable - Tervalon braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 12 	1.5	4/0	1 x 45 cm	Green	TG 4538	
DS 15 	1	5/0	1 x 45 cm	Green	TG 4547	
	1.5	4/0	1 x 45 cm	Green	TG 4548	
DS 19 	1.5	4/0	1 x 45 cm	Green	TG 6550	
	2	3/0	1 x 45 cm	Green	TG 4551	
	3	2/0	1 x 70 cm	Green	TG 9555	
DS 25 	1.5	4/0	1 x 75 cm	Green	TG 4553	
	2	3/0	1 x 75 cm	Green	TG 4554	
	2	3/0	1 x 75 cm	Green	TG 4564	
DS 30 	3	2/0	1 x 75 cm	Green	TG 4575	
	3.5	0	1 x 75 cm	Green	TG 4576	
	4	1	1 x 75 cm	Green	TG 4577	
DS 38 	4	1	1 x 75 cm	Green	TG 4586	
	5	2	1 x 75 cm	Green	TG 4587	
	4	1	1 x 75 cm	Green	TG 4588	
	4	1	2 x 75 cm	Green	TG 5587	
<b>DSC: 3/8 circle, conventional cutting needle</b>						
DSC 90 	4	1	1 x 100 cm	Green	TG 8589	

## TERVALON braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
DSM 12 	1 1.5	5/0 4/0	1 x 45 cm 1 x 45 cm	Green Green	TG 4513 TG 4514	Advanced cutting needle
DSM 15 	1.5	4/0	1 x 45 cm	Green	TG 4518	Advanced cutting needle
DSM 19 	2	3/0	1 x 75 cm	Green	TG 4524	Advanced cutting needle
DSM 25 	3	2/0	1 x 75 cm	Green	TG 4531	Advanced cutting needle
<b>GS: Straight, reverse cutting needle</b>						
GS 60 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Green Green	TG 4594 TG 4595	

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Non-absorbable - Tervalon braided





**Silon braided**

Silon braided

Silon braided

Silon braided

Silon braided





## SILON braided

SILON braided is non-absorbable, multifilament suture made of polyamide. Braided sutures made of polyamide have excellent tissue biocompatibility, minimal resistance to tissue passage and high knot security. The sutures are characterized by a strong knot-pull strength.

The sutures elicit a minimal initial inflammatory reaction in tissues, which is followed by gradual encapsulation of the sutures by fibrous connective tissue.



**Indication:** Skin closure, Subcutaneous tissue, Transversely cut muscles, Fascia, Peritoneum, Gastrointestinal tract and Blood vessels ligation.

**Contraindication:** Silon braided should not be used for suturing infected wounds. It should not be used when long-term mechanical support is required.

**Chemical Composition:** Polyamide

**Sizes:** 5/0 to 5 USP

**Structure:** Multifilament

**Absorption method:** Non-absorbable

**Colour:** White and Black



# SILON braided white ligatures

UK07  
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## Pre-cut threads

EP	USP	Length	Cat. No
1	5/0	3 x 45 cm	526
1.5	4/0	3 x 45 cm	527
2	3/0	3 x 45 cm	528
2.5	-	3 x 45 cm	529
3	2/0	3 x 45 cm	530
3.5	0	3 x 45 cm	531
4	1	3 x 45 cm	532
5	2	3 x 45 cm	557
6	3 + 4	3 x 45 cm	558
1.5	4/0	<b>6 x 45 cm</b>	SB 2032
3.5	0	6 x 45 cm	SB 2036
4	1	6 x 45 cm	SB 2037
1	5/0	<b>10 x 45 cm</b>	533
1.5	4/0	10 x 45 cm	534
2	3/0	10 x 45 cm	535
2.5	-	10 x 45 cm	536
3	2/0	10 x 45 cm	537
3.5	0	10 x 45 cm	538
4	1	10 x 45 cm	539
5	2	10 x 45 cm	547
6	3 + 4	10 x 45 cm	548
2	3/0	<b>17 x 45 cm</b>	575
3	2/0	17 x 45 cm	576
4	1	17 x 45 cm	577
1	5/0	<b>10 x 70 cm</b>	566
1.5	4/0	10 x 70 cm	567
2	3/0	10 x 70 cm	568
2.5	-	10 x 70 cm	569
3	2/0	10 x 70 cm	570
3.5	0	10 x 70 cm	571
4	1	10 x 70 cm	572
5	2	10 x 70 cm	573
6	3 + 4	10 x 70 cm	574
1.5	4/0	<b>2 x 75 cm</b>	581
2	3/0	2 x 75 cm	582
2.5	-	2 x 75 cm	583
3	2/0	2 x 75 cm	584








## Pre-cut threads

EP	USP	Length	Cat. No
3.5	0	2 x 75 cm	585
4	1	2 x 75 cm	586
5	2	2 x 75 cm	587
6	3 + 4	2 x 75 cm	588
2	3/0	<b>5 x 75 cm</b>	592
2.5	-	5 x 75 cm	593
3	2/0	5 x 75 cm	594
3.5	0	5 x 75 cm	595
4	1	5 x 75 cm	596
5	2	5 x 75 cm	597
6	3 + 4	5 x 75 cm	598
1	5/0	<b>1 x 150 cm</b>	516
1.5	4/0	1 x 150 cm	517
2	3/0	1 x 150 cm	518
2.5	-	1 x 150 cm	519
3	2/0	1 x 150 cm	520
3.5	0	1 x 150 cm	521
4	1	1 x 150 cm	522
5	2	1 x 150 cm	523
6	3 + 4	1 x 150 cm	524
7	5	1 x 150 cm	525

## Chirapack - 20 pcs./box

EP	USP	Length	Cat. No
1	5/0	1 x 300 cm	SB 2053
1.5	4/0	1 x 300 cm	SB 2054
2	3/0	1 x 300 cm	SB 2055
2.5	-	1 x 300 cm	SB 2056
3	2/0	1 x 300 cm	SB 2057
3.5	0	1 x 300 cm	SB 2058
4	1	1 x 300 cm	SB 2059
5	2	1 x 300 cm	SB 2060
6	3 + 4	1 x 300 cm	SB 2061
7	5	1 x 300 cm	SB 2062

## SILON braided






Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 37 	4	1	1 x 75 cm	White	SB 2618	
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 37 	3.5	0	1 x 90 cm	White	SB 2570	
<b>J-RX: Hook shaped, round body needle</b>						
J-RX 22 	3.5	0	1 x 75 cm	White	SB 2580	
<b>HS: ½ circle, reverse cutting needle</b>						
HS 37 	4	1	1 x 75 cm	White	SB 2555	
HS 55 	5	2	1 x 75 cm	White	SB 2520	
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 30 	3.5	0	1 x 75 cm	White	SB 4576	
DS 38 	4	1	2 x 75 cm	White	SB 5587	











# SILON braided

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Non-absorbable - Silon braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 10 	1	5/0	1 x 45 cm	White	SB 0653	
HR 13 	1.5	4/0	1 x 45 cm	White	SB 6114	
HR 15 	1	5/0	1 x 45 cm	White	SB 2407	
HR 18 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	White White	SB 6102 SB 2410	
HR 22 	2 2.5 3	3/0 - 2/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	White White White	SB 2415 SB 6103 SB 2416	
HR 27 	3	2/0	1 x 75 cm	White	SB 2426	
HR 30 	2.5 3	- 2/0	1 x 75 cm 1 x 75 cm	White White	SB 6106 SB 6107	
<b>DR: 3/8 circle, round body needle</b>						
DR 15 	1.5	4/0	1 x 45 cm	White	SB 6013	
DR 18 	1.5	4/0	1 x 75 cm	White	SB 6001	
DR 21 	2.5	-	1 x 75 cm	White	SB 6011	
DR 31 	2.5	-	1 x 75 cm	White	SB 6012	

## SILON braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HS: ½ circle, reverse cutting needle</b>						
HS 18 	1.5	4/0	1 x 45 cm	White	SB 6340	
HS 21 	1 1.5 2	5/0 4/0 3/0	1 x 75 cm 1 x 75 cm 1 x 75 cm	White White White	SB 6344 SB 6345 SB 6346	
HS 25 	2	3/0	1 x 75 cm	White	SB 6356	
HS 30 	3	2/0	1 x 75 cm	White	SB 6367	
<b>DS: 3/8 circle, reverse cutting needle</b>						
DS 15 	1.5	4/0	1 x 45 cm	White	SB 6317	
DS 19 	1.5	4/0	1 x 75 cm	White	SB 6316	
DS 25 	2.5 3	- 2/0	1 x 75 cm 1 x 75 cm	White White	SB 6318 SB 6320	
DS 30 	2.5	-	1 x 75 cm	White	SB 6319	



# SILON braided black ligatures

UK07  
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## Pre-cut threads








EP	USP	Length	Cat. No
2	3/0	3 x 45 cm	SC 0528
3	2/0	3 x 45 cm	SC 0530
3.5	0	3 x 45 cm	SC 0531
4	1	3 x 45 cm	SC 0532
5	2	3 x 45 cm	SC 0557
6	3 + 4	3 x 45 cm	SC 0558
2	3/0	<b>6 x 45 cm</b>	SC 2033
3.5	0	6 x 45 cm	SC 2036
4	1	6 x 45 cm	SC 2037
1.5	4/0	<b>10 x 45 cm</b>	SC 0534
2	3/0	10 x 45 cm	SC 0535
3	2/0	10 x 45 cm	SC 0537
3.5	0	10 x 45 cm	SC 0538
4	1	10 x 45 cm	SC 0539
5	2	10 x 45 cm	SC 0547
2	3/0	<b>10 x 70 cm</b>	SC 0568
3	2/0	10 x 70 cm	SC 0570
3.5	0	10 x 70 cm	SC 0571
4	1	10 x 70 cm	SC 0572
5	2	10 x 70 cm	SC 0573
1	5/0	<b>2 x 75 cm</b>	SC 0580
2	3/0	2 x 75 cm	SC 0582
3	2/0	2 x 75 cm	SC 0584
2	3/0	<b>5 x 75 cm</b>	SC 0592
3	2/0	5 x 75 cm	SC 0594
3.5	0	5 x 75 cm	SC 0595
4	1	5 x 75 cm	SC 0596
5	2	5 x 75 cm	SC 0597
6	3 + 4	<b>1 x 150 cm</b>	SC 0524

## Chirapack - 20 pcs./box

EP	USP	Length	Cat. No
2	3/0	1 x 300 cm	SC 2055
3	2/0	1 x 300 cm	SC 2057
3.5	0	1 x 300 cm	SC 2058
4	1	1 x 300 cm	SC 2059
5	2	1 x 300 cm	SC 2060
6	3 + 4	1 x 300 cm	SC 2061

Non-absorbable - Silon braided

## SILON braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 25 	2	3/0	1 x 75 cm	Black	SC 2420	
HR 27 	2	3/0	1 x 75 cm	Black	SC 2427	
	3	2/0	1 x 75 cm	Black	SC 2426	
HR 27 A 	2	3/0	5 x 75 cm	Black	SC 5451	Take-off needle
	2	3/0	5 x 45 cm	Black	SC 2428	
HR 30 	3	2/0	1 x 75 cm	Black	SC 6107	
HR 37 	4	1	1 x 75 cm	Black	SC 2618	
<b>HRX: ½ circle, round body needle - extra strong</b>						
HRX 35 A 	4	1	1 x 45 cm	Black	SC 2756	Take-off needle
<b>HS: ½ circle, reverse cutting needle</b>						
HS 37 	3	2/0	1 x 75 cm	Black	SC 2534	
	4	1	1 x 75 cm	Black	SC 2555	







**Silk  
braided**

Silk  
SILK  
SILK  
SILK



## SILK braided

SILK braided is a natural and non-absorbable, multifilament suture material. To give Silk braided a certain stiffness a special technology is applied.

The braided suture is stiffened by inserting a twisted stem from the same material. The Silk is coated to achieve water resistance and avoid its high capillary effect.

Silk braided is characterised by its constant thread diameter and high tensile strength. The advantages of Silk braided sutures are their extreme pliability, ease of handling and excellent knot strength.



**Indication:** Skin closure, Subcutaneous tissue, Fascia, Peritoneum, Plastic surgery, Gynaecology and the organs of the Gastrointestinal tract.

**Contraindication:** Silk braided should not be used for suturing infected wounds. Silk braided cannot be used when permanent suture stability is required.

**Chemical Composition:** Natural silk

**Sizes:** 9/0 to 5 USP

**Structure:** Multifilament

**Absorption method:** Non-absorbable

**Colour:** Black

# SILK braided black ligatures

UK07  
190

## Pre-cut threads

EP	USP	Length	Cat. No
3	2/0	5 x 30 cm	HB 7055
1.5	4/0	<b>3 x 45 cm</b>	HB 4033
2	3/0	3 x 45 cm	HB 4034
3	2/0	3 x 45 cm	HB 4035
5	2	3 x 45 cm	HB 4038
3	2/0	<b>6 x 45 cm</b>	HB 4045
1.5	4/0	<b>12 x 45 cm</b>	HB 3043
2	3/0	12 x 45 cm	HB 3044
3	2/0	12 x 45 cm	HB 3045
3.5	0	12 x 45 cm	HB 3046
1	5/0	<b>1 x 150 cm</b>	317
1.5	4/0	1 x 150 cm	318
2	3/0	1 x 150 cm	319
3	2/0	1 x 150 cm	321
3.5	0	1 x 150 cm	322
4	1	1 x 150 cm	323
5	2	1 x 150 cm	324
6	3 + 4	1 x 150 cm	325
7	5	1 x 150 cm	326










## Chirapack - 20 pcs./box

EP	USP	Length	Cat. No
2	3/0	1 x 300 cm	HB 3053
3	2/0	1 x 300 cm	HB 3054
3.5	0	1 x 300 cm	HB 3055
4	1	1 x 300 cm	HB 3056



Non-absorbable - Silk braided

## SILK braided











Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HR: ½ circle, round body needle</b>						
HR 10 	1	5/0	1 x 45 cm	Black	355	
HR 13 	1	5/0	1 x 45 cm	Black	3102	
HR 15 	0.7 2	6/0 3/0	1 x 75 cm 1 x 75 cm	Black Black	3110 3113	
HR 16 	1.5	4/0	1 x 75 cm	Black	3124	
HR 18 	1.5	4/0	1 x 75 cm	Black	3104	
HR 22 	2	3/0	1 x 75 cm	Black	3108	
HR 27 	3 3.5	2/0 0	1 x 75 cm 1 x 75 cm	Black Black	3115 3116	
HR 30 	2 3	3/0 2/0	1 x 75 cm 1 x 75 cm	Black Black	3118 3119	
HR 35 	4	1	1 x 75 cm	Black	3131	











# SILK braided

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Non-absorbable - Silk braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HRT: ½ circle, round body needle - tapercut</b>						
HRT 17 	1.5 2	4/0 3/0	1 x 45 cm 1 x 45 cm	Black Black	3153 3154	
<b>DR: 3/8 circle, round body needle</b>						
DR 8 	0.5 1	7/0 5/0	1 x 45 cm 1 x 45 cm	Black Black	350 352	
DR 10 	0.5	7/0	1 x 45 cm	Black	351	
DR 12 	1	5/0	1 x 45 cm	Black	3001	
DR 15 	1.5	4/0	1 x 45 cm	Black	3012	
DR 15 	1	5/0	1 x 75 cm	Black	3010	
DR 18 	1.5	4/0	1 x 75 cm	Black	3003	
DR 21 	1.5	4/0	1 x 75 cm	Black	3011	
<b>GR: Straight, round body needle</b>						
GR 20 	1.5 2	4/0 3/0	1 x 75 cm 1 x 75 cm	Black Black	3205 3206	
GR 45 	3	2/0	1 x 75 cm	Black	3217	












## SILK braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>HS: ½ circle, reverse cutting needle</b>						
 HS 18	1.5	4/0	1 x 45 cm	Black	3402	
	1.5	4/0	1 x 75 cm	Black	3405	
	2	3/0	1 x 75 cm	Black	3406	
	3	2/0	1 x 75 cm	Black	3407	
 HS 21	3	2/0	1 x 75 cm	Black	3427	
 HS 24	2	3/0	1 x 75 cm	Black	3434	
 HS 40	4	1	1 x 75 cm	Black	3465	
<b>DS: 3/8 circle, reverse cutting needle</b>						
 DS 12	0.7	6/0	1 x 45 cm	Black	3312	
	1	5/0	1 x 45 cm	Black	3313	
	1	5/0	1 x 75 cm	Black	3317	
 DS 15	1.5	4/0	1 x 45 cm	Black	3320	
 DS 16	1.5	4/0	1 x 75 cm	Black	3331	
	2	3/0	1 x 75 cm	Black	3332	
 DS 19	1.5	4/0	1 x 45 cm	Black	3335	
	2	3/0	1 x 75 cm	Black	3336	
	3	2/0	1 x 75 cm	Black	3337	

# SILK braided

UK07  
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Non-absorbable - Silk braided

Needle	EP	USP	Length	Colour	Cat. No	Other information
<b>DS: 3/8 circle, reverse cutting needle</b>						
 DS 25	1.5	4/0	1 x 45 cm	Black	3343	
	2	3/0	1 x 45 cm	Black	3344	
	3	2/0	1 x 45 cm	Black	3345	
 DS 30	3	2/0	1 x 75 cm	Black	3348	
	4	1	1 x 75 cm	Black	3347	
 DS 40	3	2/0	1 x 75 cm	Black	3351	
	3.5	0	1 x 75 cm	Black	3352	
	4	1	1 x 75 cm	Black	3353	
 DS 40	3.5	0	1 x 75 cm	Black	3366	
<b>DSC: 3/8 circle, conventional cutting needle</b>						
 DSC 16	0.7	6/0	1 x 45 cm	Black	8326	
	1	5/0	1 x 75 cm	Black	8327	
 DSC 40	3	2/0	1 x 75 cm	Black	8325	
 DSC 40	3	2/0	1 x 100 cm	Black	8365	
 DSC 60	4	1	1 x 75 cm	Black	8377	
<b>DSM: 3/8 circle, reverse cutting needle - micropoint</b>						
 DSM 19	2	3/0	1 x 45 cm	Black	3534	Advanced cutting needle
<b>GS: Straight, reverse cutting needle</b>						
 GS 60	3	2/0	1 x 75 cm	Black	3225	
 GS 75	2	3/0	1 x 75 cm	Black	3224	
	3.5	0	1 x 75 cm	Black	3223	



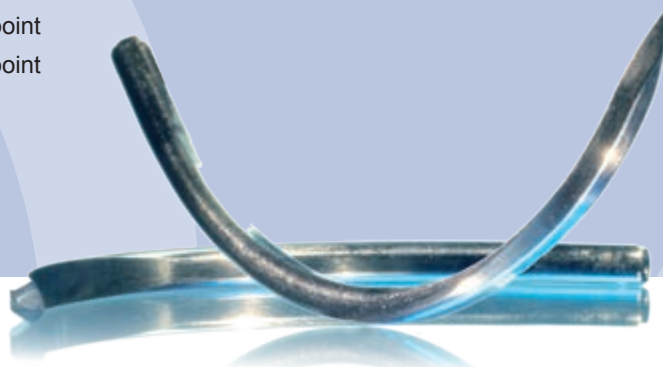
The background is a solid dark blue color. It features several large, overlapping, light blue shapes that resemble stylized leaves or petals. These shapes are arranged in a way that creates a sense of depth and movement, with some appearing to be in front of others. The overall aesthetic is clean and modern.






# **Special products**

# Ophthalmic - Microsurgery

## Type of needles

- DR - 3/8 circle, round body needle
- DSM - 3/8 circle, reverse cutting needle, micropoint
- VSM - 1/4 circle, reverse cutting needle, micropoint
- HLZ - 1/2 circle, spatulated
- DLZ - 3/8 circle, spatulated
- VLZ - 1/4 circle, spatulated
- GLZ - Straight, spatulated



Material	Needle	EP	USP	Length	Cat. No
CHIRASORB braided violet	2 x DLZ 6.4 / 200 µm	0.4	8/0	1 x 45 cm	MI 2422
		0.5	7/0	1 x 30 cm	MI 2421
CHIRASORB braided violet	2 x VLZ 8 / 350 µm	0.5	7/0	1 x 45 cm	MI 2609
		0.7	6/0	1 x 45 cm	MI 2610
CHIRLAC braided violet	1 x DLZ 6.4 / 200 µm	0.4	8/0	1 x 30 cm	MI 1419
		0.5	7/0	1 x 30 cm	MI 1420
CHIRLAC braided violet	2 x DLZ 6.4 / 200 µm	0.4	8/0	1 x 30 cm	MI 1426
		0.5	7/0	1 x 30 cm	MI 1427
CHIRLAC braided violet	2 x VLZ 8 / 350 µm	0.7	6/0	1 x 45 cm	MI 1610
		1	5/0	1 x 45 cm	MI 1710





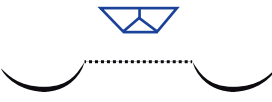



## Ophthalmic - Microsurgery

Material	Needle	EP	USP	Length	Cat. No
CHIRALEN monofilament black	1 x DR 6 	0.4	8/0	1 x 45 cm	MI 3241
CHIRALEN monofilament black	2 x DR 6.5 	0.4	8/0	1 x 60 cm	MI 3242
CHIRALEN monofilament black	1 x DLZ 6.4 / 200 µm 	0.2	10/0	1 x 15 cm	MI 1219
CHIRALEN monofilament black	2 x DLZ 6.4 / 200 µm 	0.2	10/0	1 x 23 cm	MI 1220
CHIRALEN monofilament black	2 x GLZ 16 / 150 µm  	0.2	10/0	1 x 23 cm	MI 1280
SILON monofilament black	1 x DR 3.75 / 75 µm 	0.2	10/0	1 x 13 cm	MI 2248
SILON monofilament black	1 x DR 5 Black / 130 µm 	0.4	8/0	1 x 13 cm	MI 2241
SILON monofilament black	1 x DR 5 / 100 µm 	0.3	9/0	1 x 15 cm	MI 2344
SILON monofilament black	1 x DR 5.1 / 100 µm 	0.3	9/0	1 x 13 cm	MI 2345
SILON monofilament black	1 x DR 5.1 / 75 µm 	0.2	10/0	1 x 13 cm	MI 2246

# Ophthalmic - Microsurgery

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Special Products

Material	Needle	EP	USP	Length	Cat. No
SILON monofilament black	1 x DR 6.5 / 150 µm 	0.4	8/0	1 x 15 cm	MI 1240
SILON monofilament black	1 x DSM 6.5 / 200 µm 	0.4	8/0	1 x 13 cm	MI 2448
SILON monofilament black	1 x DLZ 6.2 / 150 µm 	0.2	10/0	1 x 30 cm	MI 2223
SILON monofilament black	2 x DLZ 6.2 / 150 µm 	0.2 0.3	10/0 9/0	1 x 30 cm 1 x 30 cm	MI 1225 MI 1226
TERVALON braided green	2 x VLZ 8 / 350 µm 	1	5/0	1 x 45 cm	MI 8710
SILK braided black	2 x DSM 8 / 230 µm 	0.5	7/0	1 x 45 cm	MI 1550
SILK braided black	2 x VSM 8 / 200 µm 	0.7	6/0	1 x 45 cm	MI 1690
SILK braided black	2 x DLZ 6.4 / 200 µm 	0.4	8/0	1 x 30 cm	MI 1431
		0.5	7/0	1 x 45 cm	MI 1432

# Eye needles

Surgical Eye needles are made of high-quality stainless steel. Different types of needles are available to meet a full range of requirements. The needles are always packed in foil pouches with 12 pieces.

The surgical Eye needle range consists of Eye needles with a double spring eye and with a regular eye.

Eye needles  
Double spring







Eye needles  
Regular



## Eye needles

Double spring



Needle	Needle no.	Wire diameter (mm)	Cat. No
PB HR: ½ circle, round body needle			
 <p>HR 52</p>	1	0.65	EY 8003
 <p>HR 42</p>	2	0.65	EY 8004
 <p>HR 36</p>	3	0.55	EY 8005
 <p>HR 30</p>	4	0.55	EY 8006



# Eye needles

Double spring



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200

Needle	Needle no.	Wire diameter (mm)	Cat. No
PB HR: ½ circle, round body needle			



HR 24

5

0.55

EY 8007



HR 20

7

0.55

EY 8009



HR 13

9

0.45

EY 8011

E HRX: ½ circle, round body needle - extra strong			
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HRX 72

000

1.10

EY 8701

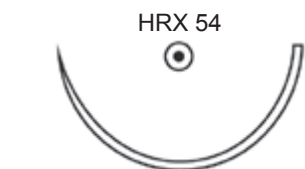


HRX 63

00

1.10

EY 8703



HRX 54

0

1.00



EY 8705



# Eye needles

Double spring



Needle	Needle no.	Wire diameter (mm)	Cat. No
<b>E HRX: ½ circle, round body needle - extra strong</b>			
HRX 46 	1	1.00	EY 8707
HRX 38 	2	0.85	EY 8709
HRX 30 	3	0.75	EY 8711
HRX 24 	4	0.65	EY 8713
HRX 22 	5	0.55	EY 8715
HRX 17.5 	6	0.55	EY 8717
<b>PC GR: Straight, round body needle</b>			
GR 70 	00	0.65	EY 8801
GR 52 	1	0.65	EY 8803
GR 36 	3	0.55	EY 8804
GR 24 	5	0.55	EY 8805

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Special Products - Eye needles

# Eye needles

Double spring



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Needle	Needle no.	Wire diameter (mm)	Cat. No
GA HS: ½ circle, reverse cutting needle			
<p>HS 72</p>	0	1.80	EY 8623
<p>HS 60</p>	2	1.60	EY 8625
<p>HS 54</p>	3	1.40	EY 8626
<p>HS 46</p>	4	1.40	EY 8627
<p>HS 38</p>	5	1.30	EY 8628
<p>HS 32</p>	6	1.10	EY 8629
<p>HS 23</p>	8	1.00	EY 8631



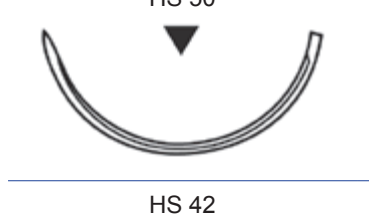
Special Products - Eye needles



# Eye needles

Double spring



Needle	Needle no.	Wire diameter (mm)	Cat. No
GE HS: ½ circle, reverse cutting needle			
 <p>HS 80</p>	1	1.30	EY 8601
 <p>HS 68</p>	3	1.10	EY 8603
 <p>HS 58</p>	5	1.10	EY 8605
 <p>HS 50</p>	8	1.00	EY 8608
 <p>HS 42</p>	11	0.85	EY 8611
 <p>HS 34</p>	14	0.75	EY 8614
 <p>HS 28</p>	17	0.65	EY 8617
 <p>HS 24.5</p>	19	0.65	EY 8619

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Special Products - Eye needles

# Eye needles

Double spring



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Special Products - Eye needles

Needle	Needle no.	Wire diameter (mm)	Cat. No
<b>GE HS: 1/2 circle, reverse cutting needle</b>			
<p>HS 20</p>	21	0.55	EY 8621
<p>HS 17.5</p>	22	0.55	EY 8622
<b>BE DS: 3/8 circle, reverse cutting needle</b>			
<p>DS 58</p>	5	1.10	EY 8405
<p>DS 50</p>	8	1.00	EY 8408
<p>DS 44</p>	10	0.85	EY 8410
<p>DS 36</p>	13	0.75	EY 8413
<p>DS 32</p>	15	0.75	EY 8415
<p>DS 28</p>	17	0.65	EY 8417
<p>DS 24.5</p>	19	0.65	EY 8419
<p>DS 20</p>	21	0.55	EY 8421

## Eye needles

Double spring



Needle	Needle no.	Wire diameter (mm)	Cat. No
BE DS: 3/8 circle, reverse cutting needle			
DS 17.5 	22	0.55	EY 8422
DS 12 	24	0.55	EY 8424

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## Eye needles

Regular



Needle	Needle no.	Wire diameter (mm)	Cat. No
PB HR: 1/2 circle, round body needle			
HR 24 	5	0.55	EY 9007
E HRX: 1/2 circle, round body needle - extra strong			
HRX 72 	000	1.10	EY 9701
HRX 38 	2	0.85	EY 9709
GA HS: 1/2 circle, reverse cutting needle			
HS 32 	6	1.10	EY 9629

# Eye needles

Regular



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Special Products - Eye needles

Needle	Needle no.	Wire diameter (mm)	Cat. No
<b>GE HS: 1/2 circle, reverse cutting needle</b>			
<p>HS 42</p>	11	0.85	EY 9611
<p>HS 34</p>	14	0.75	EY 9614
<p>HS 24.5</p>	19	0.65	EY 9619
<b>BE DS: 3/8 circle, reverse cutting needle</b>			
<p>DS 58</p>	5	1.10	EY 9405
<p>DS 44</p>	10	0.85	EY 9410
<p>DS 32</p>	15	0.75	EY 9415
<p>DS 28</p>	17	0.65	EY 9417
<p>DS 24.5</p>	19	0.65	EY 9419
<p>DS 20</p>	21	0.55	EY 9421

Chiralen

**Meshes**

Capromes  
apromesh

Chiralen

Capromes

Sto

## Surgical Meshes

Surgical Meshes have become standard for the repair of abdominal wall hernias. Surgical mesh is a sterile woven material designed for permanent implantation within the body during open or laparoscopic procedures.

A wide range of mesh implants are available, with two main functions: to stabilise and strengthen soft tissue defects, and to act as a sling to support prolapsed organs and viscera. In tissue repair applications, the mesh serves to mechanically strengthen the weakened area whilst simultaneously promoting long-term stability by acting as a scaffold for new tissue growth. It is most commonly used in pelvic organ prolapse, urinary stress incontinence and hernia repairs.

## CAPROMESH

Partially absorbable

The sterile, partially absorbable, composite mesh is made from two components: one absorbable and one non-absorbable.

Capromesh is composed of an absorbable segmented copolymer of glycolide and  $\epsilon$ -caprolactone and non-absorbable polypropylene monofilament fibres. The monofilament structure of the mesh decreases the risk of infection and inflammation.

After absorption of the absorbable part, only the polypropylene mesh remains in the body. The structure and size of the residual mesh are optimally designed for the physiological stress to which the abdominal wall is subject.

**Indication:** Capromesh is indicated in the operative treatment of fascial defects, in particular hernias, and weakened abdominal wall, the healing of which requires long-term bridging or strengthening of the damaged structures.

### Technical information

**Fibre thickness:** Approx. 500  $\mu\text{m}$

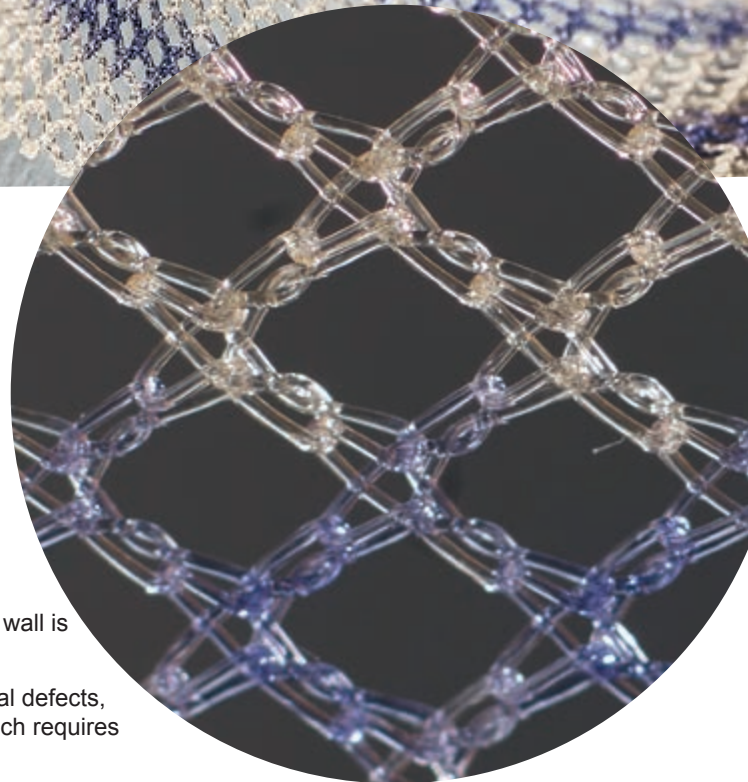
**Pore size:** 2 - 4 mm

**Weight:** Initial: approx. 85  $\text{g}/\text{m}^2$ . PP - contents approx. 28  $\text{g}/\text{m}^2$

**Stiffness:** Initial: approx. 20 mg. After absorption: approx. 1 mg

**Burst strength of the mesh:** Initial: approx. 300 N. After absorption: approx. 175 N

**Absorption time:** PGA/PCL part: approx. 90 - 120 days







## Advantages

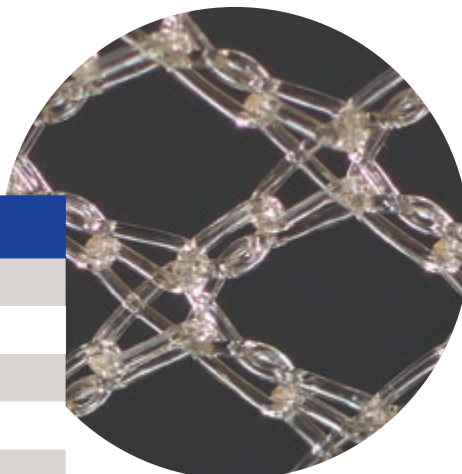
### Advantages for the surgeon:

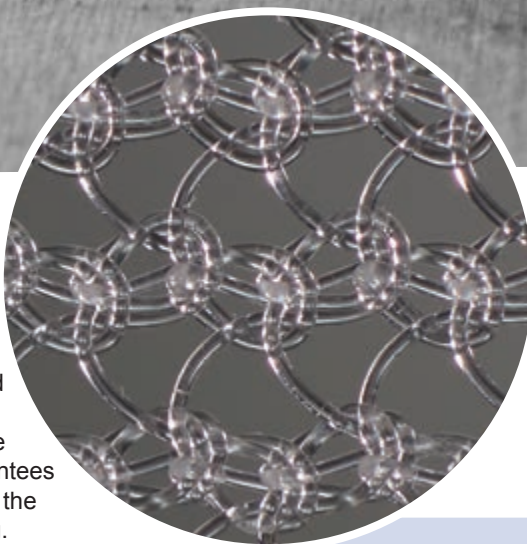
- Low inflammation risk due to monofilament structure
- Mesh can be cut into any shape and remains stable
- Optimal and safe handling during surgery
- Suitable for all operation techniques
- Made from proven materials: Monolac monofilament (PGA/PCL) and Chiralen (PP)
- Good balance between price and quality

### Advantages for the patient:

- Lower risk of infection
- Minimal foreign body component after partial absorption
- Optimal elongation in both directions
- Maximal comfort for the patient due to optimal softness
- Residual weight of the PP-net is only 25 g/m<sup>2</sup>

Size	Cat. No
6 cm x 11 cm	PC 0611
10 cm x 15 cm	PC 1015
15 cm x 15 cm	PC 1515
15 cm x 30 cm	PC 1530
30 cm x 30 cm	PC 3030





CHIRALEN meshes

## CHIRALEN meshes

Non-absorbable

The sterile and surgical meshes are made from undyed polypropylene filaments. The knitted filaments have a smooth and hydrophobic surface, which biologically are absolutely inert. High elasticity in both directions guarantees good elasticity and flexibility. This construction enables the mesh to be cut to any shape or size without unravelling. The meshes' tensile strength and tear resistance are in line with the natural properties of the body, so the meshes can be used for various indications. The special structure, increased pore size and particularly fine monofilaments provide a macroporous, very light and flexible mesh implant. Its greater porosity allows more rapid ingrowth of the body's cells, which stabilises the tissues.

The mesh can be fixed in the location of the wound. For this purpose non-absorbable suture material should be used at a distance of at least 6.5 mm from the edge of the mesh.

Chiralen meshes are available in different sizes, all offering high strength and high flexibility. Chiralen meshes are available in a weight of approx. 125 g/m<sup>2</sup> or in the light version with a weight of approx. 55 g/m<sup>2</sup>.

**Indication:** Chiralen meshes are indicated in the operative treatment of fascial defects, in particular hernias, which require long-term bridging of damaged structures.

### Technical information - Chiralen mesh

**Weight:** 125 g/m<sup>2</sup>

**Thickness of filament:** 0.420 mm

**Pore density:** 48 pores/1 cm<sup>2</sup>

### Technical information - Chiralen mesh light

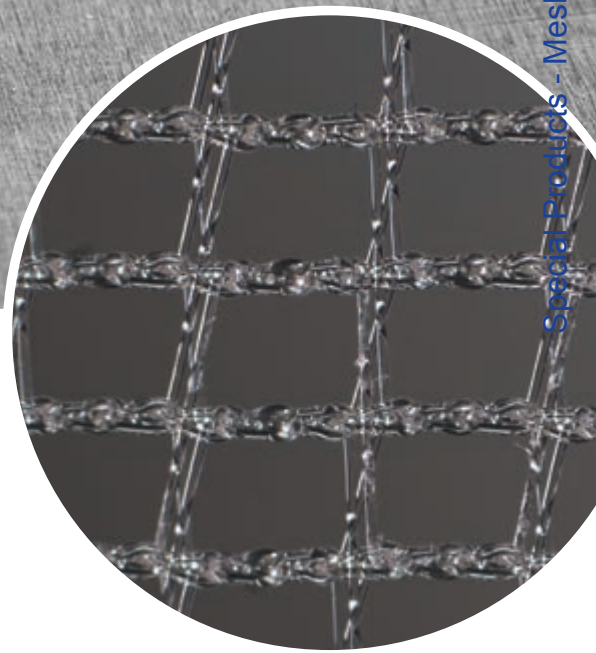
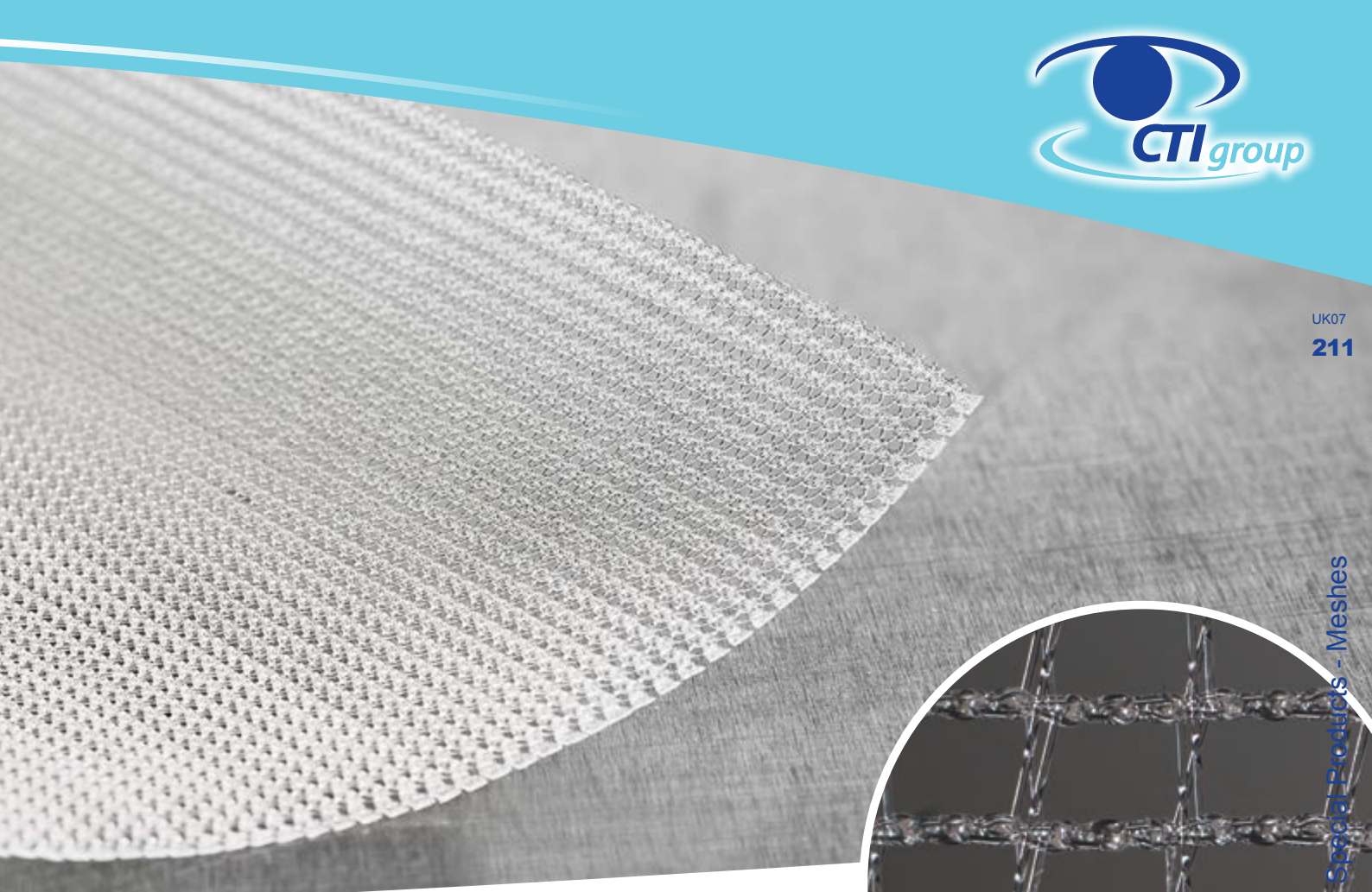
**Weight:** 55 g/m<sup>2</sup>

**Thickness of filament:** 0.320 mm

**Pore density:** 48 pores/1 cm<sup>2</sup>

**Pore size gross:** 218 µm  
(net: 180 µm)





Special Products - Meshes

CHIRALEN meshes light

## Advantages

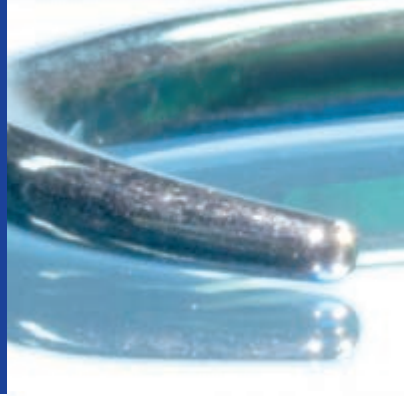
- Minimises foreign-body reactions
- Security combined with great comfort for the patient
- Optimised scar tissue formation

### CHIRALEN meshes

Size	Cat. No
6 cm x 11 cm	PM 0611
7.6 cm x 15 cm	PM 0715
10 cm x 15 cm	PM 1015
15 cm x 15 cm	PM 0151
30 cm x 30 cm	PM 0303

### CHIRALEN meshes light

Size	Cat. No
6 cm x 11 cm	PL 0611
10 cm x 15 cm	PL 1015
15 cm x 15 cm	PL 1515
15 cm x 30 cm	PL 1530
30 cm x 30 cm	PL 3030



# **Veterinary**





## Veterinary

### CHIRASORB braided violet

Bottles

EP	USP	Length	Cat. No
2	3/0	1 x 50 m	LV 1013
3	2/0	1 x 50 m	LV 1014
3.5	0	1 x 50 m	LV 1015
4	1	1 x 50 m	LV 1016
5	2	1 x 50 m	LV 1017
6	3 + 4	1 x 50 m	LV 1018
2	3/0	<b>1 x 25 m</b>	LV 1043
3	2/0	1 x 25 m	LV 1044
3.5	0	1 x 25 m	LV 1045
2	3/0	<b>1 x 15 m</b>	LV 1023
3	2/0	1 x 15 m	LV 1024
3.5	0	1 x 15 m	LV 1025
4	1	1 x 15 m	LV 1026
5	2	1 x 15 m	LV 1027
6	3 + 4	1 x 15 m	LV 1028

### CHIRLAC braided violet

Bottles

EP	USP	Length	Cat. No
2	3/0	1 x 50 m	PG 1013
3	2/0	1 x 50 m	PG 1014
3.5	0	1 x 50 m	PG 1015
4	1	1 x 50 m	PG 1016
5	2	1 x 50 m	PG 1017
6	3 + 4	1 x 50 m	PG 1018
2	3/0	<b>1 x 25 m</b>	PG 1043
3	2/0	1 x 25 m	PG 1044
3.5	0	1 x 25 m	PG 1045
4	1	1 x 25 m	PG 1046
5	2	1 x 25 m	PG 1047
2	3/0	<b>1 x 15 m</b>	PG 1023
3	2/0	1 x 15 m	PG 1024
3.5	0	1 x 15 m	PG 1025
4	1	1 x 15 m	PG 1026
5	2	1 x 15 m	PG 1027
6	3 + 4	1 x 15 m	PG 1028

### POLYDOX monofilament violet

Bottles

EP	USP	Length	Cat. No
2	3/0	1 x 50 m	DX 1013
4	1	1 x 50 m	DX 1016
2	3/0	<b>1 x 25 m</b>	DX 1043
3	2/0	1 x 25 m	DX 1044
3.5	0	1 x 25 m	DX 1045



## Veterinary

### SILON monofilament blue

Bottles

EP	USP	Length	Cat. No
1	5/0	1 x 50 m	SM 0702
1.5	4/0	1 x 50 m	SM 0703
2	3/0	1 x 50 m	SM 0704
3	2/0	1 x 50 m	SM 0705
3.5	0	1 x 50 m	SM 0706
4	1	1 x 50 m	SM 0707
5	2	1 x 50 m	SM 0708
3	2/0	<b>1 x 100 m</b>	SM 0725

### TERVALON braided green

Bottles

EP	USP	Length	Cat. No
1.5	4/0	1 x 100 m	TG 0503
2	3/0	1 x 100 m	TG 0504
3	2/0	1 x 100 m	TG 0505
3.5	0	1 x 100 m	TG 0506
4	1	<b>1 x 50 m</b>	TG 0507
5	2	1 x 50 m	TG 0508
6	3 + 4	1 x 50 m	TG 0509
7	5	<b>1 x 25 m</b>	TG 0510
8	6	1 x 25 m	TG 0511

### SILON braided white

Bottles

EP	USP	Length	Cat. No
1	5/0	1 x 100 m	501 N
1.5	4/0	1 x 100 m	502 N
2	3/0	1 x 100 m	503 N
2.5	-	1 x 100 m	504 N
3	2/0	1 x 100 m	505 N
3.5	0	1 x 100 m	506 N
4	1	<b>1 x 50 m</b>	507 N
5	2	1 x 50 m	508 N
6	3 + 4	1 x 50 m	509 N
7	5	1 x 50 m	510 N

### SILK braided black

Bottles

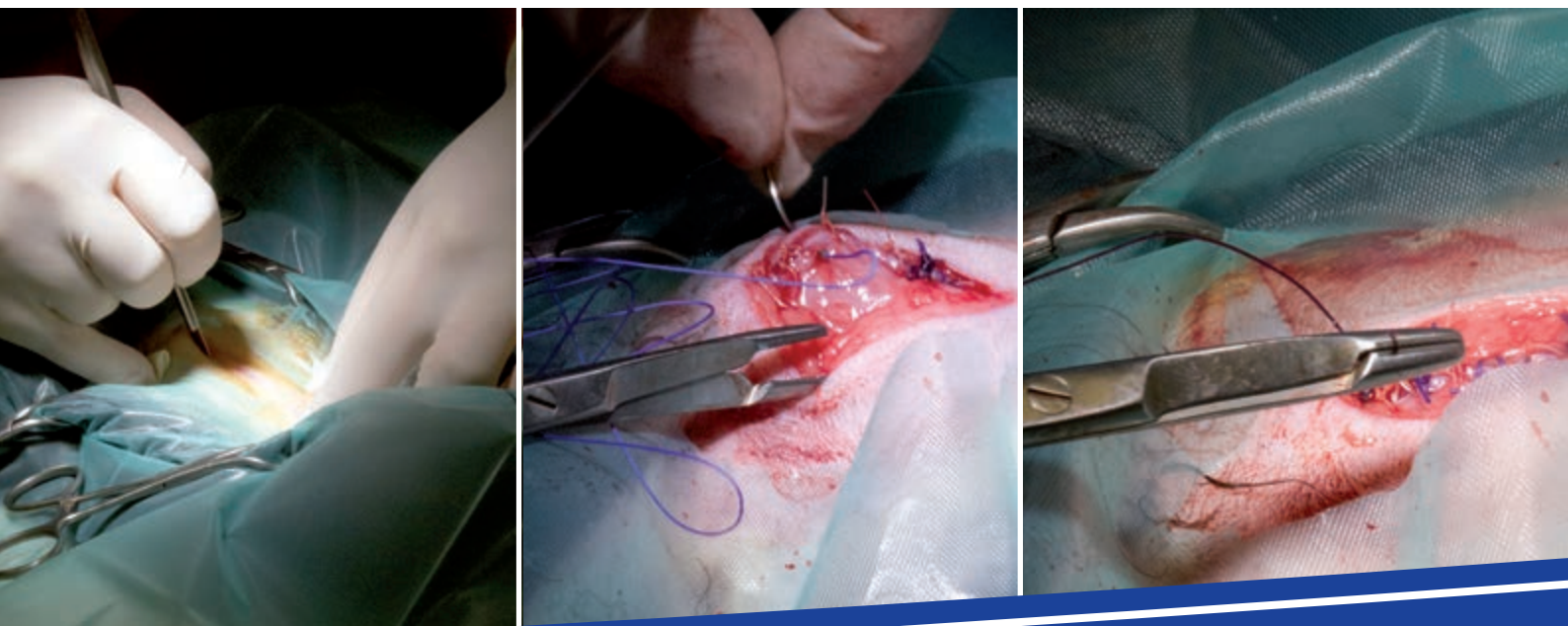
EP	USP	Length	Cat. No
1	5/0	1 x 100 m	302 N
1.5	4/0	1 x 100 m	303 N
2	3/0	1 x 100 m	304 N
3	2/0	1 x 100 m	306 N
4	1	<b>1 x 50 m</b>	308 N
5	2	1 x 50 m	309 N
7	5	<b>1 x 25 m</b>	311 N

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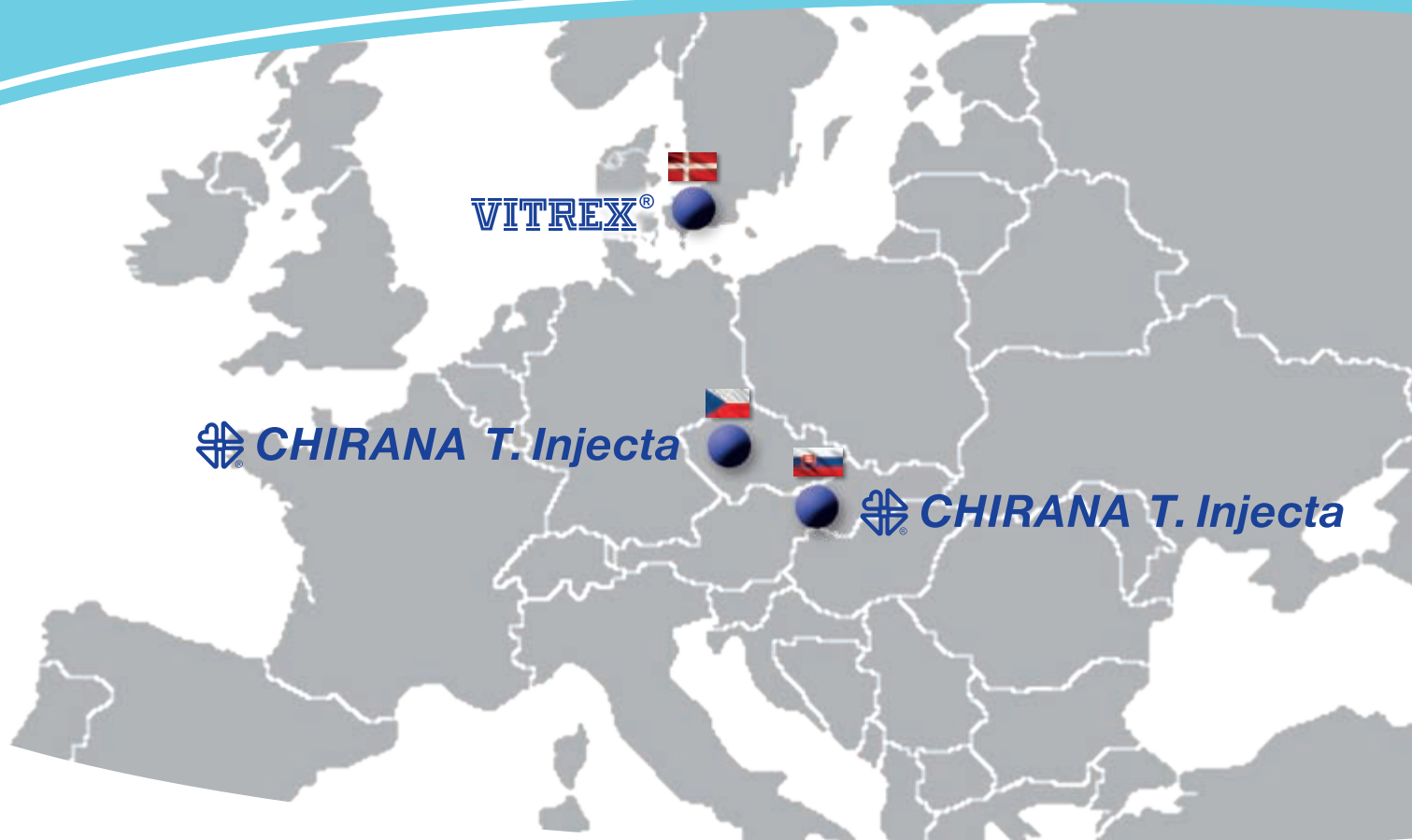
Veterinary





The background is a solid dark blue color. It features several large, overlapping, light blue shapes that resemble stylized leaves or petals. These shapes are arranged in a way that creates a sense of depth and movement, with some appearing to be in front of others. The overall aesthetic is clean and modern.

# **The CTI group**



## The CTI group

**A constellation of 3 European manufacturers of high quality products for the healthcare sector**

The CTI group consists of: CHIRANA T. Injecta in Slovakia, CHIRANA T. Injecta in the Czech Republic and Vitrex Medical in Denmark.

The intention of CTI group is to serve as an "umbrella-organization", where the individual companies collaborate to be "Committed to Innovation" and reach the joint goal:  
- to develop, produce and distribute high quality, healthcare products.







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The CTI group

### CHIRANA T. Injecta, Slovakia

CHIRANA T. Injecta is a global, state of the art manufacturer of healthcare products, which was founded in 1935.

In 1947 CHIRANA T. Injecta started manufacturing glass syringes and they have ever since focused on development and production of high quality, disposable products for the healthcare sector. Through continuously updating production facilities and expanding their product range, they are today supplying:

- Hypodermic syringes
- Perfusion syringes
- Pen and Blood collection needles
- Insulin syringes
- Cannula and lancet needles

### CHIRANA T. Injecta, Czech Republic

CHIRANA T. Injecta was founded in 1930. Since the early 1990s they have made substantial investments in upgrading the production resources, enabling the company to offer products in an unique quality.

Their more than 85 years of experience with manufacturing sutures has resulted in top priority within quality control, product development and sutures manufactured in line with state of the art technology. Their present range consist of:

- Surgical Sutures, Ligatures and Meshes
- Veterinary bottles and Eye needles
- Microsurgery and Cardiovascular sutures
- Antibacterial sutures

### VITREX Medical, Denmark

Vitrex Medical was founded in 1965 and has since the 1970s mainly focused on supplying to the laboratory and analytical sector.

With more than 50 years of experience Vitrex Medical has become the largest manufacturer of capillary tubes in the world today by developing equipment, establishing technologies, and optimizing production processes. Vitrex Medical currently supplies:

- Capillary tubes and Micro-Hematocrit tubes
- Micro-pipettes
- Safety lancets
- Vacuum tubes and Blood collection needles
- Pen needles and Diabetic lancets



# Version UK08

Designed by Vitrex Medical A/S

2023-10 Rev.008

**CHIRANA T. Injecta, s.r.o.**

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Czech Republic**

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