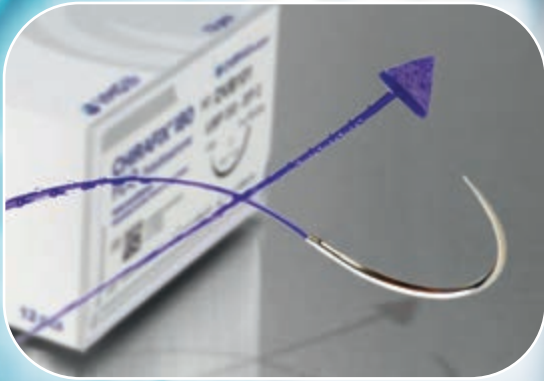


Wound closure





Wound closure



Surgical Sutures Product Range

Absorbable threads

Chirasorb rapid braided



Composition	Colour	Range	Characteristics	Tensile Strength retention
Braided and coated suture made from 90% glycolide and 10% L-lactide. Coated with Copolymer of 30% glycolide and 70% lactide, and calcium stearate.	Violet and Natural	6/0 to 2 USP	Absorbable, multifilament, coated, synthetic, high tensile strength, reduced capillary effect	Short-term healing (12 days), 1 Day 100%, 5 Days 50%, 10-14 Days 0%

Chirlac rapid braided



Composition	Colour	Range	Characteristics	Tensile Strength retention
Braided and coated suture made of Polyglycolic acid (PGA). Coated with polycaprolactone and calcium stearate.	Violet and Natural	6/0 to 4 USP	Absorbable, multifilament, coated, synthetic, high tensile strength, reduced capillary effect	Short-term healing (12 days), 1 Day 100%, 5 Days 60%, 10-14 Days 0%

Monolac monofilament



Composition	Colour	Range	Characteristics	Tensile Strength retention
Monofilament suture made of Glycolide and ε-caprolactone.	Violet and Natural	6/0 to 2 USP	Absorbable, monofilament, synthetic, high tensile strength, excellent handling properties	Mid-term healing (30 days), 1 Day 100%, 7 Days 50-60%, 14 Days 20-30%

Chirasorb braided



Composition	Colour	Range	Characteristics	Tensile Strength retention
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 (35 days), 1 Day 100%, 14 Days 75%, 21 Days 50%

Chirasorb Plus braided Antibacterial



Composition	Colour	Range	Characteristics	Tensile Strength retention
Antibacterial, braided and coated suture made from 90% glycolide, 10% L-lactide and chlorhexidine diacetate. Covered with antibacterial coating. Copolymer glycolide and lactide, calcium stearate and chlorhexidine diacetate.	Violet and Natural	5/0 to 4 USP	Absorbable, multifilament, antibacterial coating, synthetic, high tensile strength, reduced capillary effect,	Mid-term healing (35 days). 1 Day 100%, 14 Days 75%, 21 Days 50%

Chirlac braided



Composition	Colour	Range	Characteristics	Tensile Strength retention
Braided and coated suture made of Polyglycolic acid (PGA). Coated with polycaprolactone and calcium stearate.	Violet and Natural	9/0 to 6 USP	Absorbable, multifilament, coated, synthetic, high tensile strength, reduced capillary effect	Mid-term healing (28 - 35 days). 1 Day 100%, 14 Days 65-75%, 21 Days 45-50%

Polydiox monofilament



Composition	Colour	Range	Characteristics	Tensile Strength retention
Monofilament suture made of Poly-p-dioxanone.	Violet	7/0 to 4 USP	Absorbable, monofilament, synthetic, high tensile strength, excellent knotting properties	Long-term healing (90 - 98 days). 1 Day 100%, 45 Days 50%

Non-absorbable threads

Chiraflon monofilament



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



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



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



Composition	Colour	Range	Characteristics
Braided and coated suture made of Polyester coated with Filodell (Ethyl Cellulose and pure bees wax)	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

Silon braided



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



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

New



Chirafix® 180 knotless barbed suture

Chirafix® is an absorbable barbed suture with a durable needle, a barbing pattern for effective tissue closure, and a stopper for stable fixation, which results in a shorter operation time and more satisfying surgery.

Barbed suture offers several benefits compared to standard absorbable suture, one of which is the effect of reducing the surgical closure time. As an example, laparoscopic myomectomy shows an operation time reduction of 34%.

- Knotless barbed suture
- Excellent penetration with premium needle
- Safe tissue fixation with optimized barbing pattern
- Knotless suture without loop fixation

Premium QUALITY Needle

- Ease of repeated use due to lasting sharpness and excellent penetration
- Highly resistant to bending

Stopper SECURITY

- Stable fixation (Intensity exceeds USP standard)
- Shortening surgical operation time

Barbing Pattern EFFICIENCY

- Same level of strength as a standard suture
- Excellent tissue closure

European Pharmacopoeia

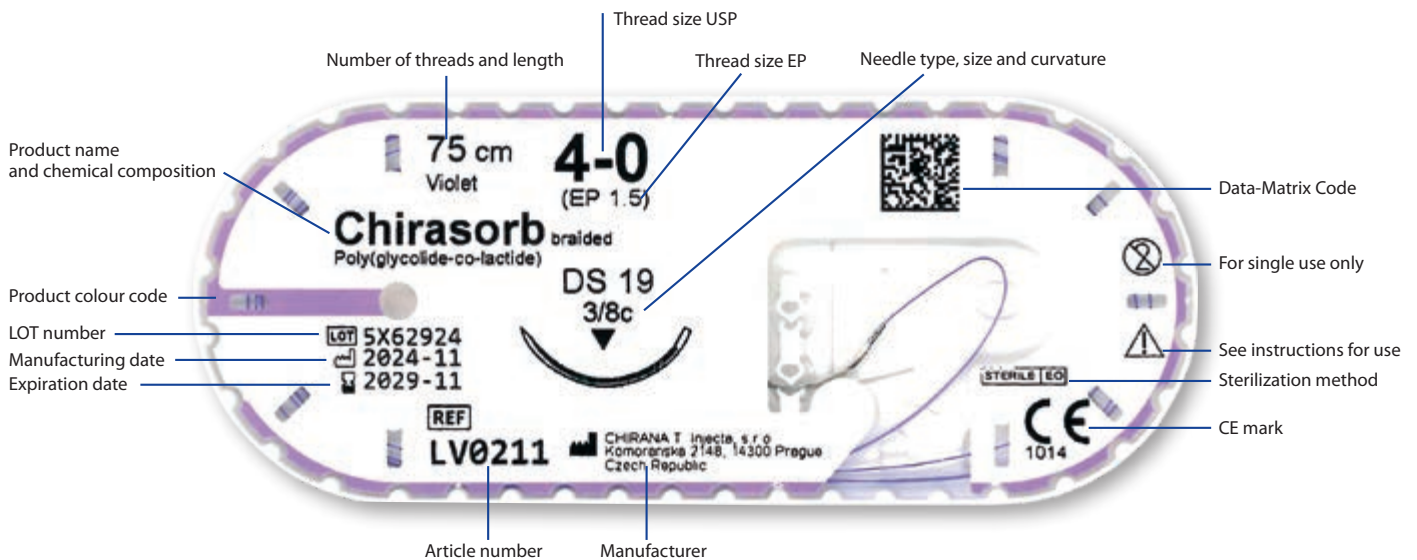
The publication of the European Pharmacopoeia (Ph. Eur.) resulted in a standardization of the classification of threads and gauges of surgical suture material.

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
0.2	10-0
0.3	9-0
0.4	8-0
0.5	7-0
0.7	6-0
1	5-0
1.5	4-0
2	3-0
3	2-0
3.5	0
4	1
5	2
6	3+4
7	5
8	6

Labelling and Packaging



The packaging of our surgical suture material is stable, userfriendly 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

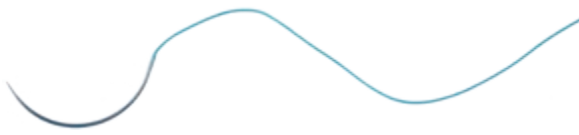
2.5 or 3 meters of suture material on a thread spool, ready for use. Each sales unit contains 20 individual packs.



Needle/thread combinations

Single armed

Single stitch Continuous suture



Double armed

Mainly for anastomosis of blood vessels or other anatomical ducts

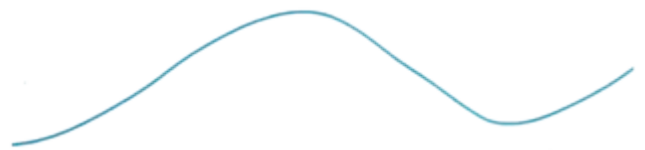


Loop

Abdominal wall and tendons



Ligatures



Needle types

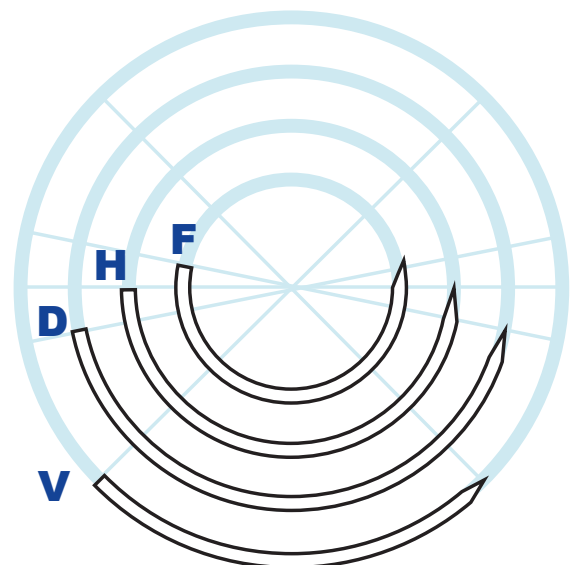
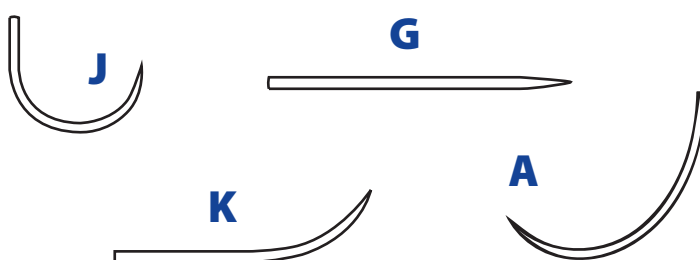
Needle Curvature	Needle Body	Needle Point	Speciality
V - 1/4	R - Round body	T - Tapercut	s - Slim, rectangular body
H - 1/2	S - Reverse cutting	N - Blunt	A - Take-off needle
D - 3/8	SC - Conventional cutting	M - Micropoint	X - Extra strong needle
F - 5/8	LZ - Spatula	D - Diamond	Black - Black needle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

A - Asymmetric



K - Ski



G - Straight



Needle curvatures







Atraumatic Surgical Needles



HR  1/2 circle, round body needle	Code	Length
	HR 8	8 mm
	HR 10	10 mm
	HR 13	13 mm
	HR 16	16 mm
	HR 17	17 mm
	HR 18	18 mm
	HR 22	22 mm
	HR 25	25 mm
	HR 26	26 mm
	HR 26 black	26 mm
	HR 27	27 mm
	HR 30	30 mm
	HR 35	35 mm
	HR 37	37 mm
	HR 40	40 mm
	HR 43	43 mm
	HR 45	45 mm
	HR 48	48 mm
	HR 50	50 mm
	HR 60	60 mm
HR 65	65 mm	
HR 75	75 mm	


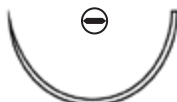
HRT  1/2 circle, round body needle, tapercut	Code	Length
	HRT 10	10 mm
	HRT 11	11 mm
	HRT 13	13 mm
	HRT 17	17 mm
	HRT 20	20 mm
	HRT 22	22 mm
	HRT 25	25 mm
	HRT 26	26 mm
	HRT 30	30 mm
	HRT 31	31 mm
	HRT 37	37 mm
	HRT 40	40 mm
	HRT 45	45 mm
	HRT 48	48 mm
	HRT 50	50 mm



HRTX  1/2 circle, round body needle, tapercut, extra strong	Code	Length
	HRTX 45	45 mm
	HRTX 50	50 mm



HRs  1/2 circle, round body needle, slim	Code	Length
	HRs 18	18 mm
	HRs 22 black	22 mm
	HRs 27 black	27 mm



HRN  1/2 circle, round body needle, blunt point	Code	Length
	HRN 50	50 mm



HRX  1/2 circle, round body needle, extra strong	Code	Length
	HRX 22	22 mm
	HRX 26	26 mm
	HRX 27	27 mm
	HRX 30	30 mm
	HRX 35	35 mm
	HRX 36	36 mm
	HRX 37	37 mm
	HRX 40	40 mm
	HRX 45	45 mm
	HRX 48	48 mm
	HRX 50	50 mm
HRX 70	70 mm	



HRF  1/2 circle, flattened body needle, taper point	Code	Length
	HRF 13	13 mm
	HRF 17	17 mm
	HRF 20	20 mm
	HRF 22	22 mm
	HRF 26	26 mm
	HRF 31	31 mm

HS  1/2 circle, reverse cutting needle	Code	Length
	HS 12	12 mm
	HS 15	15 mm
	HS 18	18 mm
	HS 21	21 mm
	HS 22	22 mm
	HS 25	25 mm
	HS 26	26 mm
	HS 27	27 mm
	HS 30	30 mm
	HS 36	36 mm
	HS 37	37 mm
	HS 40	40 mm
	HS 45	45 mm
	HS 48	48 mm
	HS 50	50 mm
HS 55	55 mm	



DR  3/8 circle, round body needle	Code	Length
	DR 6	6 mm
	DR 8	8 mm
	DR 10	10 mm
	DR 12	12 mm
	DR 13	13 mm
	DR 15	15 mm
	DR 17	17 mm
	DR 18	18 mm
	DR 21	21 mm
	DR 30	30 mm
	DR 31	31 mm



DSM  3/8 circle, reverse cutting needle, micropoint	Code	Length
	DSM 6.5	6.5 mm
	DSM 12	12 mm
	DSM 15	15 mm
	DSM 19	19 mm

DSCM  3/8 circle, conventional cutting needle, micropoint	Code	Length
	DSCM 16	16 mm
	DSCM 19	19 mm
	DSCM 20	20 mm



DRT  3/8 circle, round body needle, tapercut	Code	Length
	DRT 10	10 mm
	DRT 10 black	10 mm
	DRT 11	11 mm
	DRT 13	13 mm
	DRT 17	17 mm

DSM  3/8 circle, reverse cutting needle, micropoint	Code	Length
	DSM 6.5	6.5 mm
	DSM 8	8 mm

DRN  3/8 circle, round body needle, blunt point	Code	Length
	DRN 60	60 mm



DS  3/8 circle, reverse cutting needle	Code	Length
	DS 10	10 mm
	DS 12	12 mm
	DS 15	15 mm
	DS 16	16 mm
	DS 19	19 mm
	DS 20	20 mm
	DS 24	24 mm
	DS 25	25 mm
	DS 26	26 mm
	DS 30	30 mm
	DS 36	36 mm
	DS 37	37 mm
	DS 38	38 mm
	DS 40	40 mm
	DS 50	50 mm
	DS 60	60 mm
DS 90	90 mm	



Atraumatic Surgical Needles - Microsurgery


DR  3/8 circle, round body needle	Code	Length
	DR 3,75	3,75 mm
	DR 5	5 mm
	DR 5 black	5 mm
	DR 5,1	5,1 mm
	DR 6	6 mm
	DR 6,5	6,5 mm



DSM  3/8 circle, reverse cutting needle, micropoint	Code	Length
	DSM 6,5	6,5 mm
	DSM 8	8 mm

VSM  1/4 circle, reverse cutting needle, micropoint	Code	Length
	VSM 8	8 mm


HLZ  1/2 circle, spatulated	Code	Length
	HLZ 8	8 mm



DLZ  3/8 circle, spatulated	Code	Length
	DLZ 6,2	6,2 mm
	DLZ 6,4	6,4 mm



VLZ  1/4 circle, spatulated	Code	Length
	VLZ 8	8 mm



GLZ  straight, spatulated	Code	Length
	GLZ 16	16 mm



Atraumatic Surgical Needles - Special Needles



FR  5/8 circle, round body needle	Code	Length
	FR 27	27 mm
	FR 38	38 mm

GR  straight, round body needle	Code	Length
	GR 20	20 mm
	GR 45	45 mm

KR  Ski needle, round body	Code	Length
	KR 27	27 mm

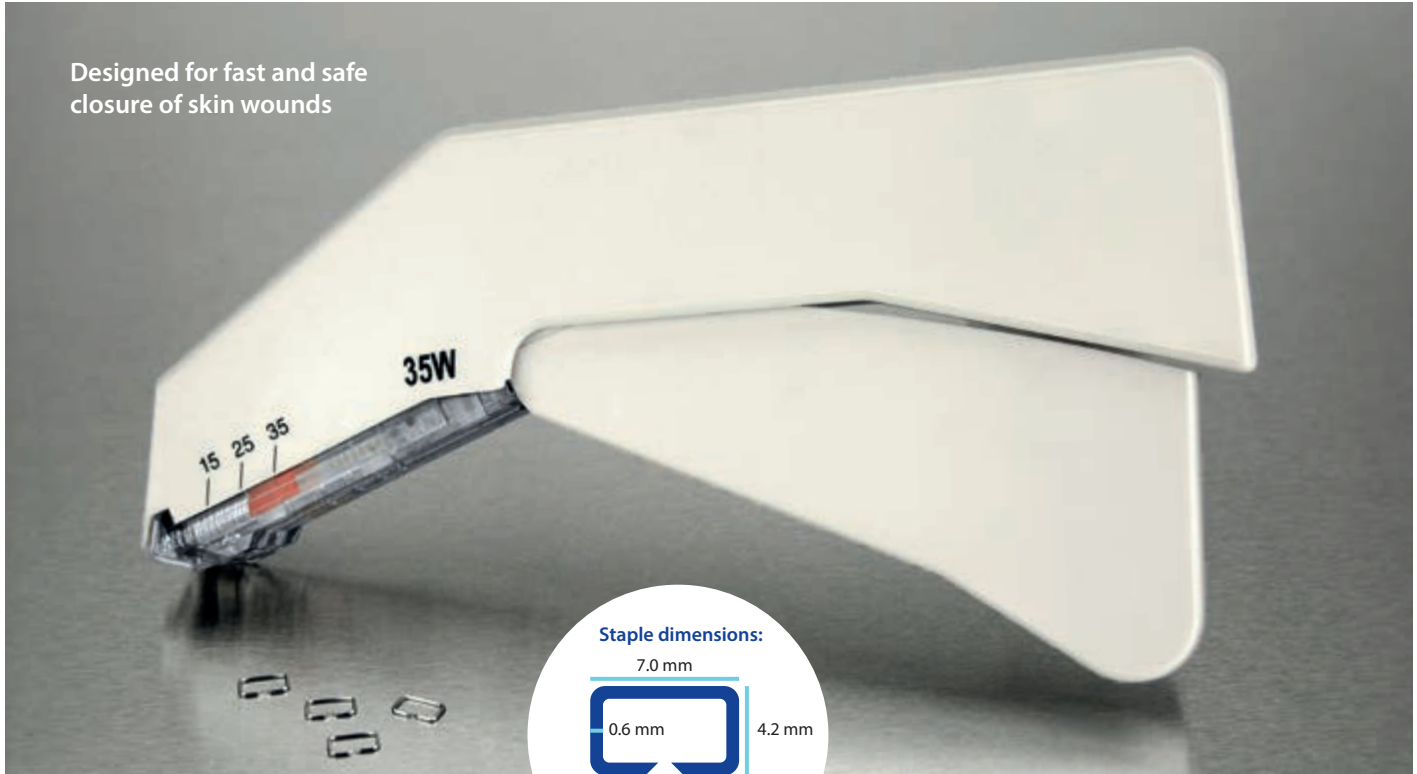
JRT  Hook shaped, round body needle, tapercut	Code	Length
	JRT 30	30 mm

JRX  Hook shaped, round body needle	Code	Length
	JRX 22	22 mm
	JRX 30	30 mm

GS  Straight, reverse cutting needle	Code	Length
	GS 13	13 mm
	GS 50	50 mm
	GS 60	60 mm
	GS 65	65 mm
	GS 75	75 mm

Sterile Skin Stapler and Staples Remover

The Sterile Skin Stapler is designed for fast and safe closure of skin wounds. The device is highly suitable for application in surgical procedures, emergency medicine, and various other medical disciplines.



The Sterile Skin Stapler may be used for:

- Wound closure in general surgery for a variety of surgical procedures
- Closure of uninfected post traumatic wounds
- Primary, delayed primary and secondary closure of surgical incisions and wounds

This device should be used only by a doctor or veterinary assistant.

Article No.	Description	Units per box
WS35W0	Skin Stapler with 35 regular staples	10
WSDEX0	Skin Staples Remover	6

Shelf life 5 years

Key Features:

Quick closure

Allows efficient and quick wound closure, reducing operation time.

Sterile packaging

Single use product

Ergonomic design

The Sterile Skin Staples Remover is designed to remove skin staples quickly, safely and painlessly. It is ideal to use in surgery, emergency medicine and other medical fields.

The Sterile Skin Staples Remover may be used for:

- Surgical procedures
- Emergency medicine
- Outpatient care



Key Features:

Safe removal

Allows quick and painless removal of staples without damaging the skin.

Disposable

Minimizes the risk of infection and ensures sterility.

Sterile packaging

Ergonomic design

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 stabilize and strengthen soft tissue defects, and to act as a sling to support prolapsed organs and viscera. It is most commonly used in pelvic organ prolapse, urinary stress incontinence and hernia repairs.

Capromesh meshes

Partially absorbable

The sterile, partially absorbable, composite mesh is made from two components: one absorbable and one non-absorbable. After absorption of the absorbable part, only the polypropylene mesh remains in the body.

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

Chiralen meshes

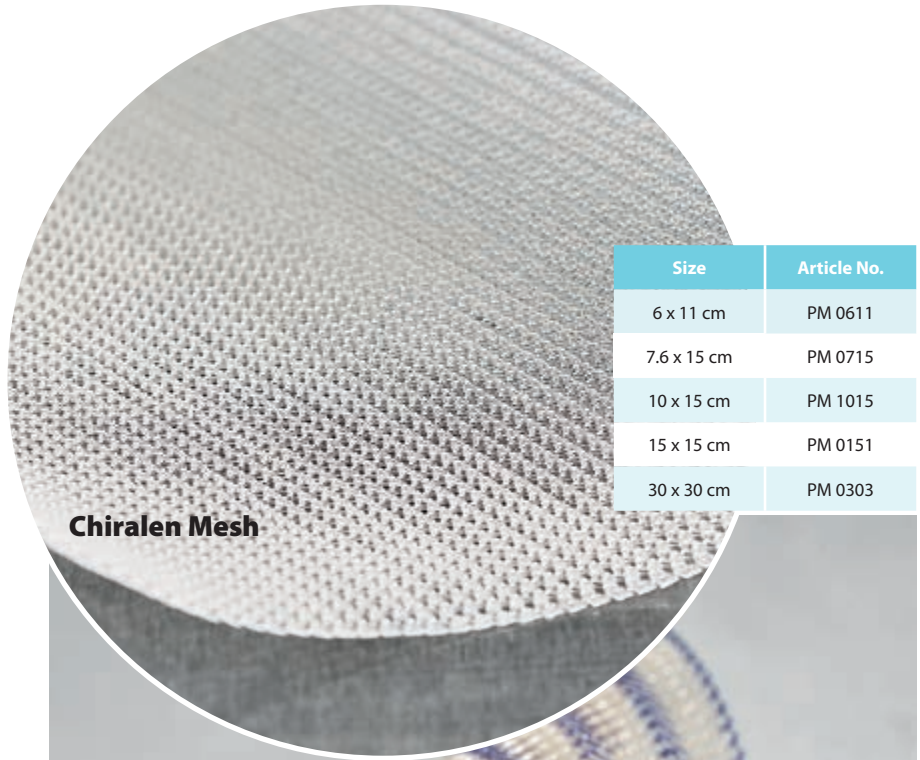
Non-absorbable

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.

Chiralen meshes are available in different sizes, all offering high strength and high flexibility. Chiralen meshes are available in a weight of approx. 110 g/m² or in the light version with a weight of approx. 30 g/m².

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

For more information on the Wound Closure portfolio, please check our website www.vitrexmg.com.



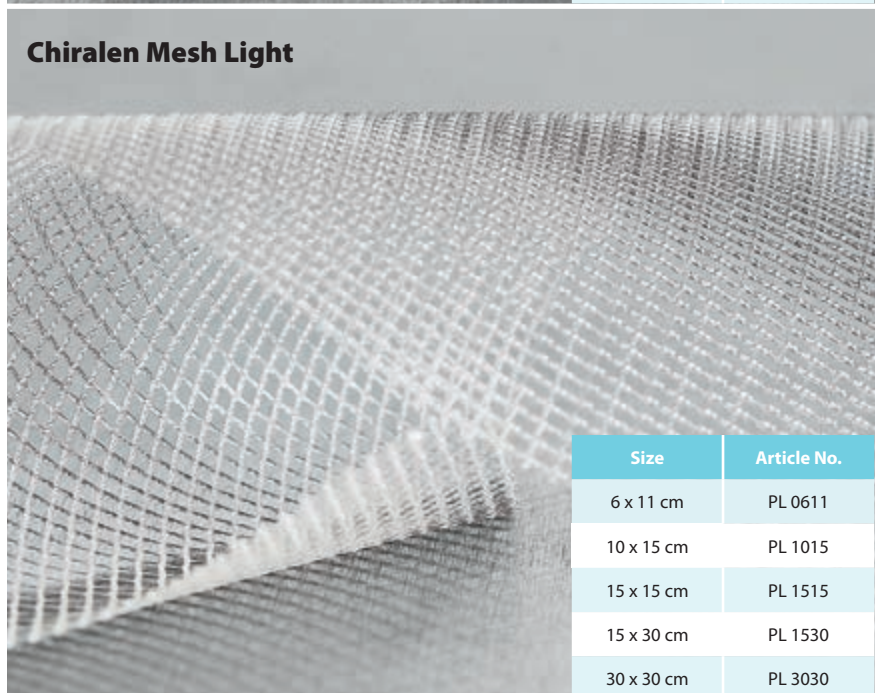
Chiralen Mesh

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



Capromesh

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



Chiralen Mesh Light

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



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