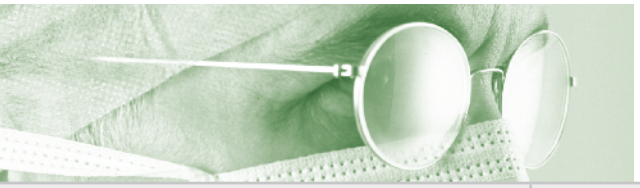
Ackermann©
DISPOSABLE

ACKERMANN DISPOSABLE CATALOG

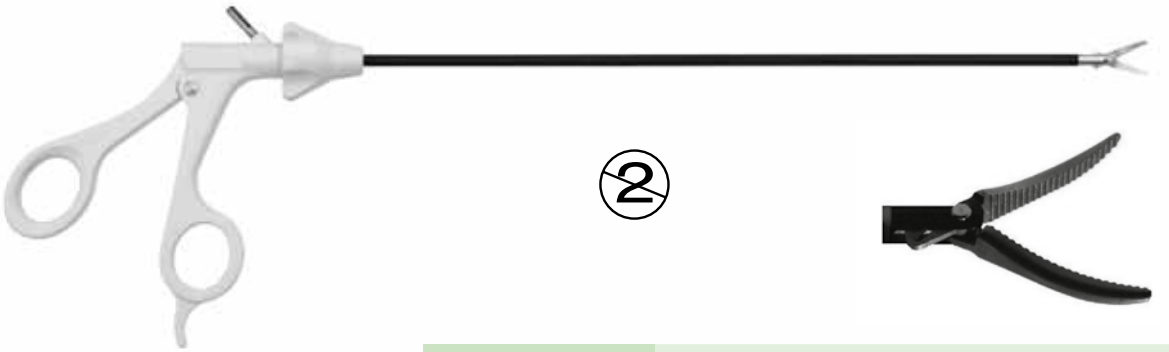
DISPOSABLE INSTRUMENTS

DISPOSABLE TROCARS



STANDARD HANDLE

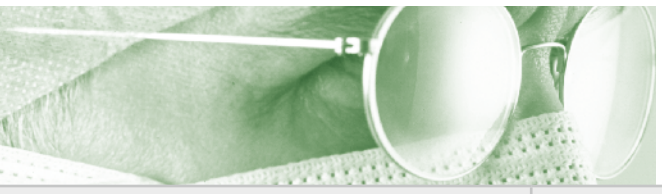
13-1466ECDDRH	Metzenbaum, 33 cm working length, no ratchet	Ø 5 mm	10 pcs/pack



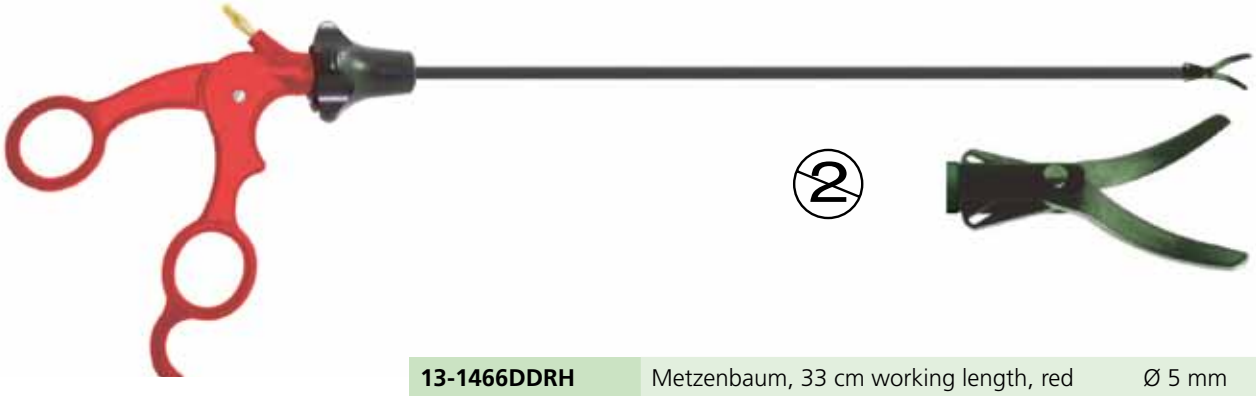
13-1318ECDDRH	Maryland, 33 cm working length, no ratchet	Ø 5 mm	10 pcs/pack

13-1323ECDDRH	Endo Clinch, 33 cm wl with ratchet	Ø 5 mm	10 pcs/pack

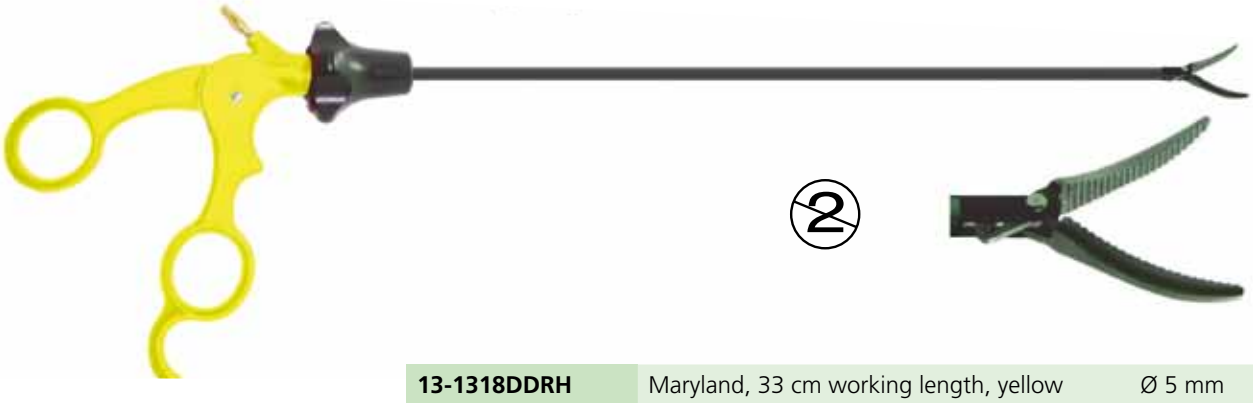
13-1375ECDDRH	Wave-Grasper, 33 cm wl with ratchet	Ø 5 mm	10 pcs/pack



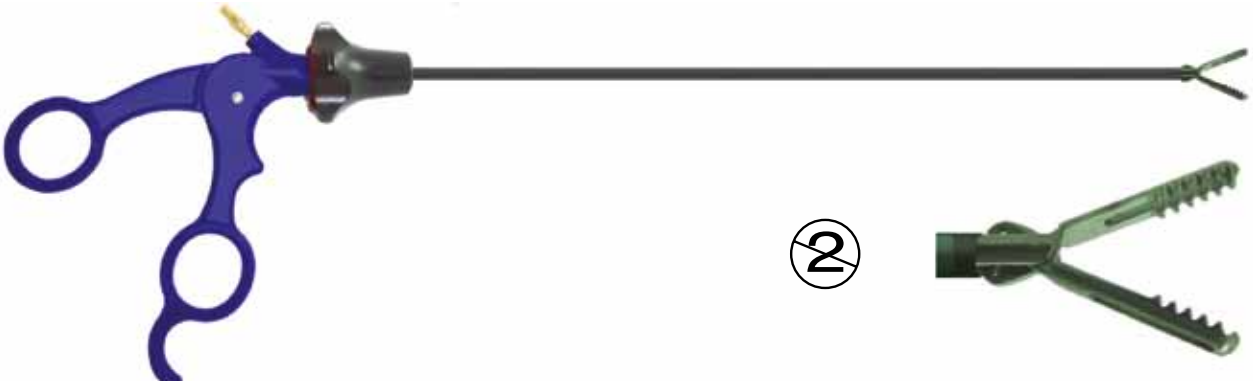
RING HANDLE



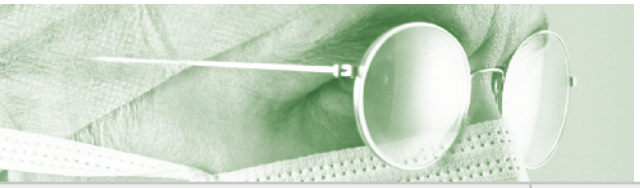
13-1466DDRH	Metzenbaum, 33 cm working length, red	Ø 5 mm	6 pcs/pack



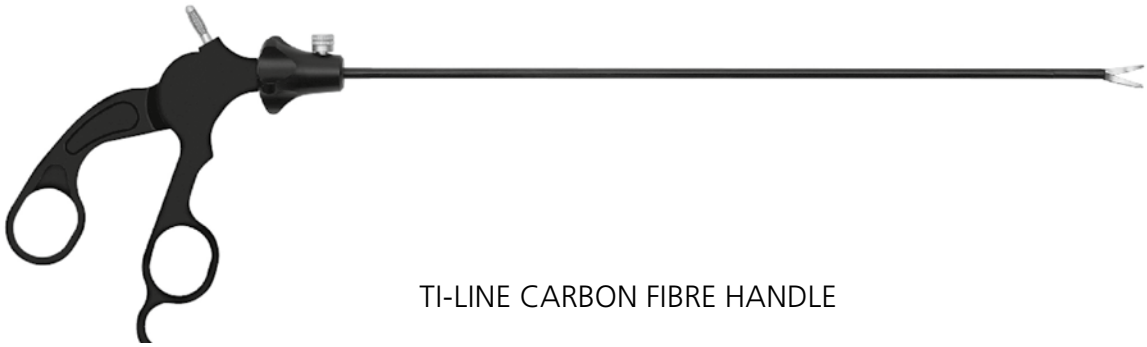
13-1318DDRH	Maryland, 33 cm working length, yellow	Ø 5 mm	6 pcs/pack



13-1323DDRH	Endo Clinch, 33 cm working length, blue	Ø 5 mm	6 pcs/pack
13-1323DDRHR	Endo Clinch, 33 cm working length, blue, ratchet	Ø 5 mm	6 pcs/pack

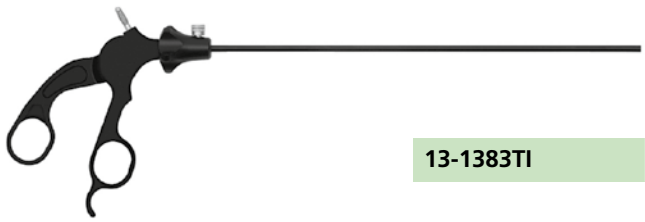


TI-LINE DISPOSABLE TIPS

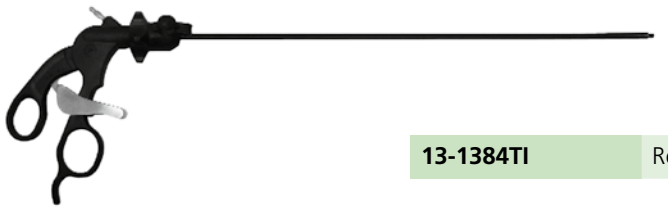


TI-LINE CARBON FIBRE HANDLE

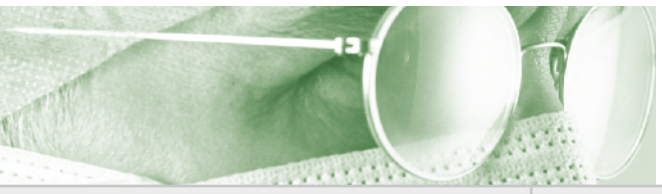
	13-1469TI	METZENBAUM scissors, curved	10 pcs/pack
	13-1460TI	METZENBAUM scissors, straight	10 pcs/pack
	13-1323TI	ENDO CLINCH, strong pattern	10 pcs/pack
	13-1318TI	MARYLAND grasping forceps	10 pcs/pack
	13-1301TI	Fenestrated grasping forceps, slightly flat jaws	10 pcs/pack
	13-1431TI	Metzenbaum scissors, curved	10 pcs/pack
	13-1467TI	Metzenbaum, curved, medium blades	10 pcs/pack
	13-1468TI	Miniature Metzenbaum, mini blades	10 pcs/pack



13-1383TI	Reusable carbon fibre handle without ratchet	1 pcs/pack



13-1384TI	Reusable carbon fibre handle with ratchet	1 pcs/pack



FUTURE LAP INSERT / SHEATH ASSEMBLY

2

13-1301DDI	Fenestrated grasping forceps, 5 mm, working length 330 mm	10 pcs/pack
13-1301DDI-45	Fenestrated grasping forceps, 5 mm, working length 450 mm	10 pcs/pack

13-1318DDI	MARYLAND, 5 mm, working length 330 mm	10 pcs/pack
13-1318DDI-45	MARYLAND, 5 mm, working length 450 mm	10 pcs/pack

13-1323DDI	ENDO CHLINCH, 5 mm, working length 330 mm	10 pcs/pack
13-1323DDI-45	ENDO CHLINCH, 5 mm, working length 450 mm	10 pcs/pack

13-1375DDI	Wave grasper, 5 mm, working length 330 mm	10 pcs/pack
13-1375DDI-45	Wave grasper, 5 mm, working length 450 mm	10 pcs/pack

13-1376DDI	MIXTER clamp, angled 90°, 5 mm, working length 330 mm	10 pcs/pack
13-1376DDI-45	MIXTER clamp, angled 90°, 5 mm, working length 450 mm	10 pcs/pack

13-1409DDI	Dolphin nose, 5 mm, working length 330 mm	10 pcs/pack
13-1409DDI-45	Dolphin nose, 5 mm, working length 450 mm	10 pcs/pack

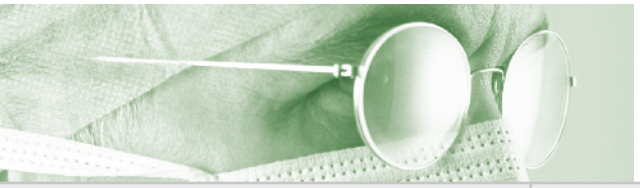
13-1418DDI	Allis, 3 x 4 teeth, 5 mm, working length 330 mm	10 pcs/pack
13-1418DDI-45	Allis, 3 x 4 teeth, 5 mm, working length 450 mm	10 pcs/pack

13-1431DDI	Hook scissors, 5 mm, working length 330 mm	10 pcs/pack
13-1431DDI-45	Hook scissors, 5 mm, working length 450 mm	10 pcs/pack

13-1466DDI	Metzenbaum, curved, serrated, 5 mm, working length 330 mm	10 pcs/pack
13-1466DDI-45	Metzenbaum, curved, serrated, 5 mm, working length 450 mm	10 pcs/pack

13-1467DDI	Metzenbaum, sraight, serrated, 5 mm, working length 330 mm	10 pcs/pack
13-1467DDI-45	Metzenbaum, sraight, serrated, 5 mm, working length 450 mm	10 pcs/pack

13-1542DDI	BABCOCK – DE BAKEY, 5 mm, working length 330 mm	10 pcs/pack
13-1542DDI-45	BABCOCK – DE BAKEY, 5 mm, working length 450 mm	10 pcs/pack



13-1383CS	Reusable carbon fibre handle, without ratchet	1 pcs/pack

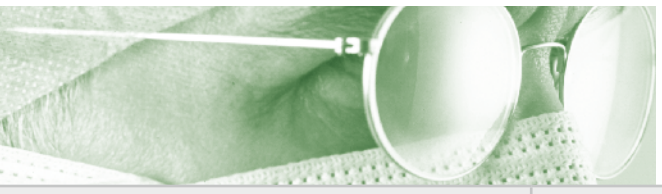
13-1384CS	Reusable carbon fibre handle, with ratchet	1 pcs/pack

DISPOSABLE TROCARS – HASSON

10-1067DD	HASSON Trocar, blunt Ø 10 mm, 10 cm working length	10 pcs/pack
10-1067DD-12	HASSON Trocar, blunt Ø 12,5 mm, 10 cm working length	10 pcs/pack

DISPOSABLE TROCARS – SAFETY SHIELDED

10-1089DD	Safety-Shield Trocar, Ø 5 mm, 10 cm wl, tube in metal	10 pcs/pack
10-1091DD	Safety-Shield Trocar, Ø 10 mm, 10 cm working length	10 pcs/pack
10-1092DD	Safety-Shield Trocar, Ø 12,5 mm, 10 cm working length	10 pcs/pack



DISPOSABLE TROCARS – CONICAL TIP

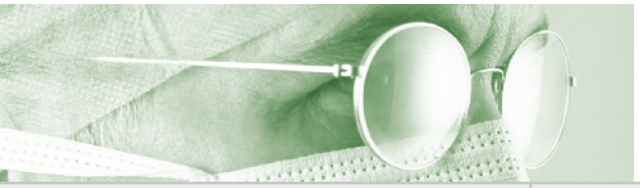
10-1103DD	Trocar, pyramidal obturator, Ø 5 mm, 10 cm working length	10 pcs/pack
10-1104DD	Trocar, conical obturator, Ø 10 mm, 10 cm working length	10 pcs/pack

DISPOSABLE TROCARS – DILATING TIP

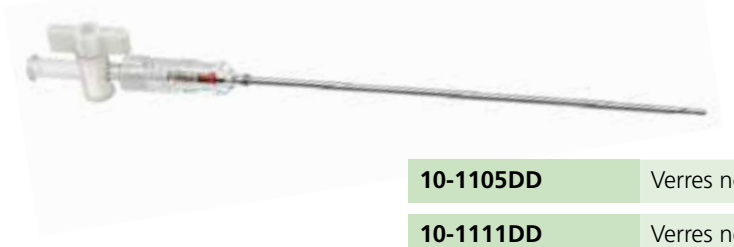
10-1093DD	Trocar, dilating tip obturator, Ø 5 mm, 10 cm working length	10 pcs/pack
10-1094DD	Trocar, dilating tip obturator, Ø 10 mm, 10 cm working length	10 pcs/pack
10-1099DD	Trocar, dilating tip obturator, Ø 12,5 mm, 10 cm working length	10 pcs/pack

DISPOSABLE TROCARS – SHEATH ONLY

10-1089DD-100	Trocar sheath, Ø 5 mm, 10 cm working length	10 pcs/pack
10-1091DD-100	Trocar sheath, Ø 10 mm, 10 cm working length	10 pcs/pack
10-1092DD-100	Trocar sheath, Ø 12,5 mm, 10 cm working length	10 pcs/pack



DISPOSABLE VERRES NEEDLES



10-1105DD	Verres needle, 110 mm working length	20 pcs/pack
10-1111DD	Verres needle, 150 mm working length	20 pcs/pack
10-1112DD	Verres needle, 170 mm working length	20 pcs/pack

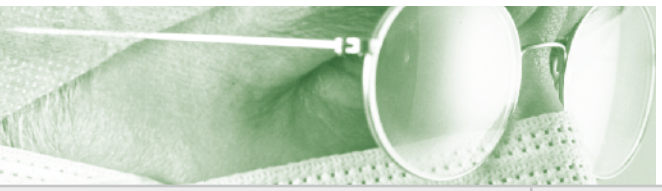
SEMI DISPOSABLE VERRES NEEDLES

10-1106	Verres needle for adaptable disposable tips, 120 mm	1 pcs/pack
10-1108	Verres needle for adaptable disposable tips, 150 mm	1 pcs/pack

10-1107	Disposable needle for above 120 mm body	10 pcs/pack
10-1109	Disposable needle for above 150 mm body	10 pcs/pack

DISPOSABLE KNOT PUSHER

13-1617DD	Knot pusher, Ø 5 mm, 35 cm working length	25 pcs/pack



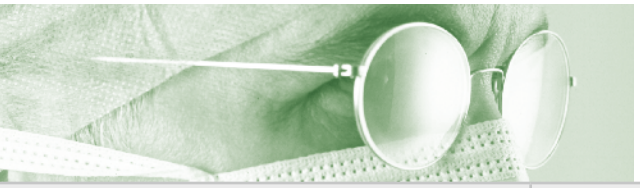
BALLON SET

10-1012-125	Sterile disposable balloon set, with clear sheath (Ø 11,0 mm) to screw into above housing	1 pcs/pack
10-1012-105	Trocar for Hernia Repair	1 pcs/pack

10-1012-130	Reusable pump for inflating the Hernia Ballon 10-1012-125	1 pcs/pack

DISPOSABLE HAND ASSISTED TUNNELS

②	**10-1056DD**	Disposable hand assisted Lap - tunnel, Ø 50 mm x 100 mm small size disposable	10 pcs/pack
②	**10-1057DD**	Disposable hand assisted Lap - tunnel, Ø 85 mm x 130 mm medium size disposable	10 pcs/pack
②	**10-1058DD**	Disposable hand assisted Lap - tunnel, 100 mm x 200 mm large size disposable	10 pcs/pack



DISPOSABLE EVACUATION BAG

⊘2	**13-1673DD**	Tissue Retrival Bag with handle small size 75 mm x 150 mm reinforced	10 pcs/pack
⊘2	**13-1674DD**	Tissue Retrival Bag with handle large size 125 mm x 200 mm reinforced	10 pcs/pack

DISPOSABLE CAUTRIES

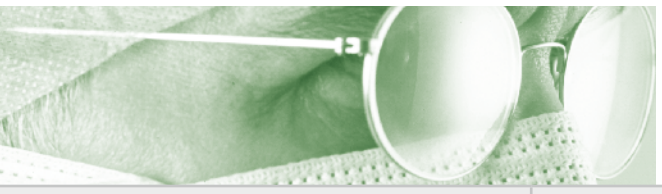
⊘2	**11-1185D**	Cautries, J-hook tip, 330 mm working length	10 pcs/pack

⊘2	**11-1170D**	Cautries, spatula tip, 330 mm working length	10 pcs/pack

⊘2	**11-1175D**	Cautries, L-hook tip, 330 mm working length	10 pcs/pack

Ackermann single use cautries are unequalled in price, quality and design. Why wasting time in cleaning, resterilization and electrosurgical burns and failures in insulation.

You can get a sterile product from the pack at a unbeatable rate. Ackermann is disposable where it deserves to be disposable.



LAPAROLUBE©

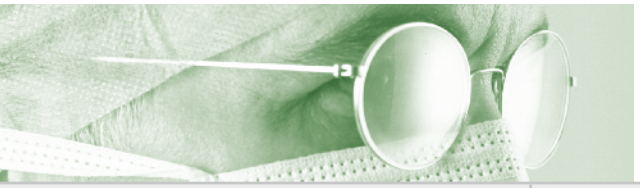
11-1121	Ackermann, Laparolube, sterile	40 pcs/pack

Anti Fog and Lubrification combination for a clear and crispy view during the procedure and a comfortable instrument handling as well.

ENDO SLEEVE

AI22-41871	Ackermann Endo Sleeve, sterile	40 pcs/pack

The cost effective competitive sterile camera drape avoids cumbersome sterilisation of the camera head.



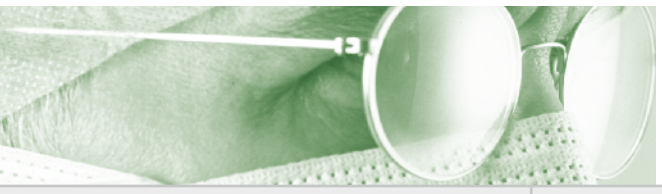
EUROPCLIP©

Large: **AI74CL6**	6 Clips / Cardridge 20 Cardridges / Box 120 Clips / Box

Medium Large: **AI74CML6**	6 Clips / Cardridge 20 Cardridges / Box 120 Clips / Box

Medium: **AI74CM6**	6 Clips / Cardridge 20 Cardridges / Box 120 Clips / Box

Small: **AI74CS6**	6 Clips / Cardridge 20 Cardridges / Box 120 Clips / Box

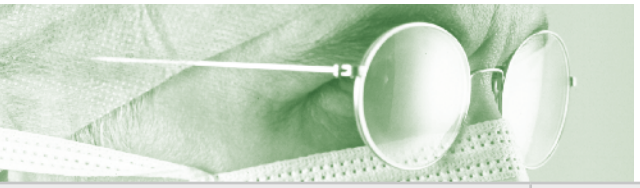


TUBING SET DISPOSABLE

15-1720-300	Irrigation pump, Tubing set	10 pcs/pack
15-1720-400	Irrigation pump, Tubing set	50 pcs/pack

15-1711-600D	CO^2 Insufflator, tubing set, for 15-1711	20 pcs/pack

16-2040-100YD	CO^2 Insufflator, tubing set, for 16-2040, 16-2041, 16-2042, filter incl.	10 pcs/pack

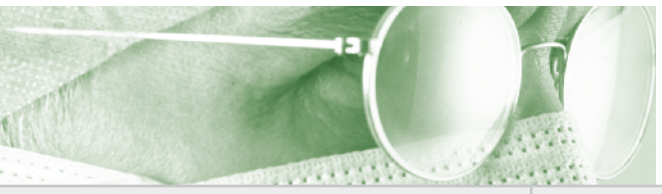


DISPOSABLE SUCTION-IRRIGATION SYSTEM

11-1275D	Two – way suction and irrigation system with trumpet valves, disposable with tube set	10 pcs/pack

11-1236D	Modular suction and irrigation handle, disposable with tube set	10 pcs/pack

11-1236D	Adaptor for the reusable suction / irrigation sheaths from page 16 of our catalogue section 11 to 11-1236D	1 pcs/pack



NOTIZEN | *NOTES*

Ackermann©
DISPOSABLE

Finest Surgical Technology

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sales@ackermannmedical.de
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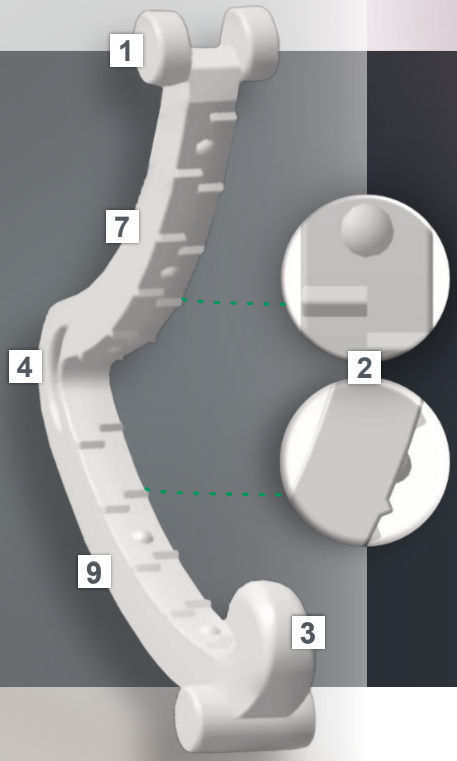
ACKERMANN **POLYCLIP**©

SURGERY'S FUTURE

KEY FEATURES



ACKERMANN POLYCLIP©

POLYMER LIGATION SYSTEM

1. Non-absorbable and biocompatible Polymer
2. Anti-slipping patent
3. Clear locking tactile and audible feedback
4. Flexible hinge
5. Available in size ML, L and XL
6. Colour-coded for easy identification
7. Quick and easy application and removal
8. Reliable and secure
9. X-ray lucent
10. Ideal for a variety of speciality surgeries

1 USE IT FOR

10

- ✓ General surgery
- ✓ Urology
- ✓ Gynecology
- ✓ Throracic Surgery
- ✓ Vascular Surgery
- ✓ Cardio Vascular Surgery
- ✓ ENT

2 HOW IT WORKS

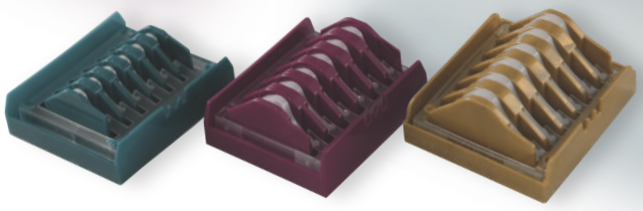
8

3 SIZE RANGE OF VESSEL / TISSUE BUNDLE

5

ML	L	XL
3 mm - 10 mm	5 mm - 13 mm	7 mm - 16 mm

6



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Rev. 2017-10

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THE RANGE

ACKERMANN **POLYCLIP©**

SURGERY'S FUTURE

1 POLYCLIPS©

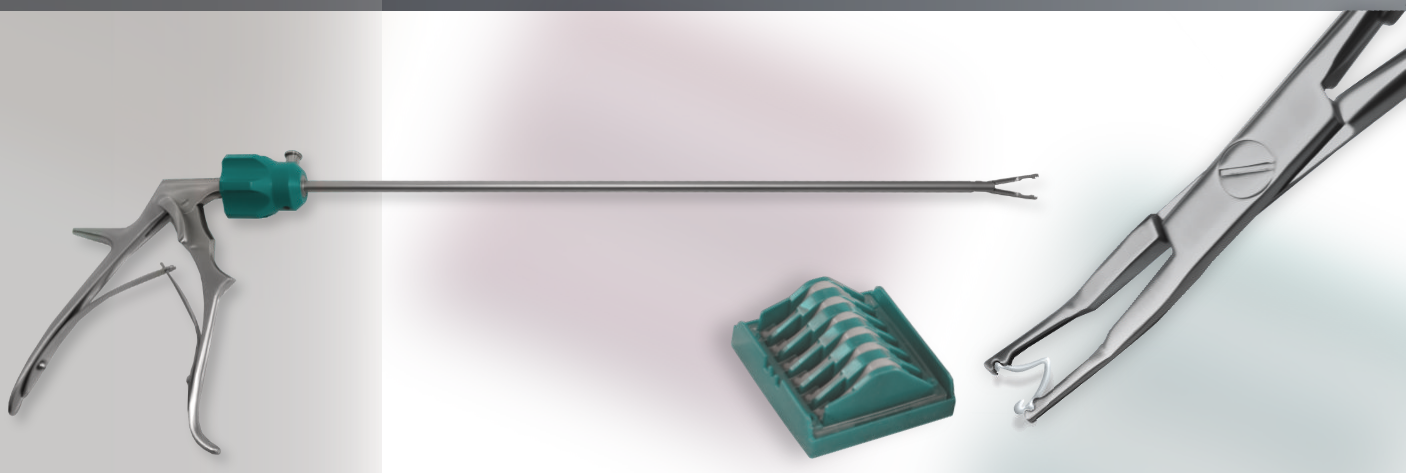
	ITEM #	SIZE	COLOUR	CLIPS / CARTRIDGE	CARTRIDGES / BOX	CLIPS / BOX
ML	**AI74CMLP6**	Medium-large	Green	6	14	84
L	**AI74CLP6**	Large	Purple	6	14	84
XL	**AI74CXLP6**	Extra-Large	Gold	6	14	84

2 CLIP APPLIER

	OPEN SURGERY			ENDO SURGERY		
	ITEM #	LENGTH	JAW TYPE	ITEM #	LENGTH	DIAMETER
M	**AI-321522P**	28 cm	Straight			
	AI-321526P	20 cm	Straight			
	AI-321528P	28 cm	Right-angled			
ML	**AI-321540P**	20 cm	Straight	**13-1615AS-P**	33 cm	5 mm
	AI-321542P	28 cm	Straight	**13-1615AS-45P**	45 cm	5 mm
	AI-321546P	28 cm	Right-angled			
L	**AI-321550P**	20 cm	Straight	**13-1613-106AS-P**	33 cm	10 mm
	AI-321554P	28 cm	Straight	**13-1613-106AS-45P**	45 cm	10 mm
	AI-321556P	28 cm	Right-angled			
XL	**AI-321558P**	28 cm	Straight	**13-1613-108AS-P**	33 cm	10 mm
	AI-321560P	28 cm	Right-angled	**13-1613-108AS-45P**	45 cm	10 mm

3 CLIP REMOVER

	OPEN SURGERY		ENDO SURGERY		
	ITEM #	LENGTH	ITEM #	LENGTH	DIAMETER
M ML L	**AI-321586P**	28 cm	**13-1613PR**	33 cm	5 mm
			13-1613-45PR	45 cm	5 mm
L XL	**AI-321587P**	28 cm	**13-1615PR**	33 cm	10 mm
			13-1615-45PR	45 cm	10 mm



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Rev. 2017-10

Products Catalog

FDA ISO CE

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Saving Lives Everyday™

Manufacturers and Distributors of the Finest Surgical Sutures & Disposables

KOLLSUT-USA

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Kollsut Sutures and Surgical Mesh are becoming more and more desirable and recognized for their quality and durability not only in Medical Institutions in the United States of America, but also in many countries around the world. Kollsut Sutures were tested for strength of the thread and needle/suture bond strength. They were found to be comparable to other leading global brands by Medical Device Testing Lab in the United States. Surgeons around the world praise the cut and strength of the needles, versatilities of the threads and needle thread interface.

Kollsut Sutures are approved by major regulating organizations such as FDA – Food and Drug Administration and manufactured under ISO (International Standardization Organization) standards. This is the result of 15 years of study, labor and research of our scientists and technicians. Our personnel have been selected and trained very carefully. They have vast experience applying modern techniques in the surgery field, therefore we can guarantee that they will be happy to offer you support by frequently conducting workshops and seminars in our facilities in United States and other countries in the world. Products of Kollsut®-USA are sold only through our distributors in the United States and in many countries around the world.

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Clasification of sutures

Monofilament

ADVANTAGES	DISADVANTAGES
Smooth surface Less tissue trauma No bacterial harbours No capillarity	Handling & knotting Ends/knot burial Stretch

Multifilament

ADVANTAGES	DISADVANTAGES
Strength Soft & pliable Good handling Good knotting	Bacterial harbours Capillary action Tissue trauma

Synthetic

ADVANTAGES	DISADVANTAGES
Non-Absorbables are inert Absorbables resemble natural substances Absorption by hydrolysis Predictable absorption Strength	Monofilament handling

Biological

ADVANTAGES	DISADVANTAGES
Handling & knotting Economy	Tissue reactions

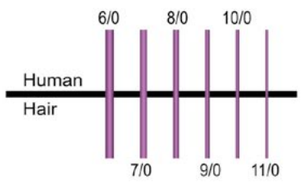
Absorbable

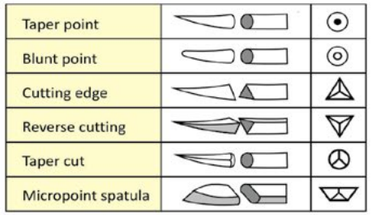
ADVANTAGES	DISADVANTAGES
Broken down by body No foreign body left	Consideration of wound support time

Non-Absorbable

ADVANTAGES	DISADVANTAGES
Permanent wound Support	Foreign body left Suture removal can be costly and inconvenient Sinus & Extrusion if left in place

	Monofl.	Multifil.	Synthetic	Biological	Abs.	Non-abs.
Rastoro™ (Polyglycolic Acid)		●	●		●	
Simfra™ (Poliglecaprone 25)	●		●		●	
Gilza™ (Polydioxanone)	●		●		●	
Molylon™ (Nylon Monofil. Polyamide)	●		●			●
Pidilen™ (Polypropylene)	●		●			●
Silda™ (Braided Silk)		●		●		●
Restel™ (Braided Polyester)		●	●			●
Radik™ (Polyglactin 910)		●	●		●	





USP sizes 3 | 2 | 1 | 0 | 2/0 | 3/0 | 4/0 | 5/0 | 6/0 | 7/0 | 8/0 | 9/0 | 10/0 | 11/0

Main needle shapes

1/2 circle
- Muscle
- Eye
- Skin
- Peritoneum

3/8 circle
- Dura
- Eye
- Fascia
- Nerve

1/4 circle
- Eye
- Microsurgery

Straight
- Nasal cavity
- Nerve
- Skin
- Tendon

J Shape
- Laparoscopy

5/8 circle
- Cardiovascular
- Oral
- Pelvis
- Urogenital tract

Rastoro™ — Absorbable — Polyglycolic Acid

Common aplications: RASTORO is indicated for use in general soft tissue approximation including ophthalmic surgery.
Urology - Gastroenterology - General Surgery - Plastic Surgery - Cuticular - Ophthalmology - Orthopedics - Bond - Ob./Gyn.

Raw material
100%Polyglycolic Acid Coated with Calcium Stearate & Polycaprolactone

Multifilament
Synthetic

Type / Material color
Braided / Violet or undyed

Tensile Strength
14days ..... 65 %

Absorption
Within 60 - 90 days

Features
- Excellent handling and knotting characteristics.
- Smooth tissue passage.
- Easy knotting and tie down.
- Excellent knot security

Anti- Bacterial sutures also available

Rastoro Fast™ — Absorbable — Polyglycolic Acid fast

Common aplications: RASTORO FAST is indicated for use in general soft tissue approximation. Skin and Mucosa -superficial soft tissue closure

Raw material
100% Polyglycolic acid

Multifilament

Suture Type/Material color
Braided/Violet or Undyed

Tensile Strength
5-7 days ..... 50 %

Absorption
Within 42 days

Features
- Excellent handling and knotting characteristics.
- Smooth tissue passage.
- Easy knotting and tie down.
- Excellent knot security

Radik™ — Absorbable — Polyglactin 910

Common aplications: RADIK is indicated for use in general soft tissue approximation including ophthalmic surgery.

Raw material
Copolymers made from 90% glycolide and 10% L-lactide

Multifilament
Synthetic

Type / Material color
Braided / Violet or undyed

Tensile Strength
7 days ..... 90 %
14 days ..... 75 %
21 days ..... 50 %

Absorption
Within 56 - 70 days

Features
- Excellent handling and knotting characteristics.
- Smooth tissue passage.
- Easy knotting and tie down.
- Excellent knot security

Anti-Bacterial sutures also available as Plus™

Radik Fast™ — Absorbable — Polyglactin 910 fast

Common aplications: RADIK is indicated for use in general soft tissue approximation including ophthalmic surgery.

Raw material
Copolymers made from 90% glycolide and 10% L-lactide

Multifilament
Synthetic

Type / Material color
Braided / Violet or undyed

Tensile Strength
5 days ..... 50 %
10-14 days ..... 0 %

Absorption
Within 42 days

Features
- Excellent handling and knotting characteristics.
- Smooth tissue passage.
- Easy knotting and tie down.
- Excellent knot security

Simfra™ — Absorbable — Poliglecaprone 25

Common aplications: SIMFRA is intended for use where general soft tissue approximation and ligation.
General surgery-skin closure-Gastrointestinal -Urological.
Use cautiously in patients with delayed wound healing, application on Cardiovascular, neurosurgery and ophthalmic surgery prohibited

Raw material
Poly(glycolide-co-caprolactone)(PGA-PCL)

Type / Material color
Monofilament /Undyed or violet

Absorption
Within 90 - 110 days

Monofilament
Synthetic

Tensile Strength
7 days ..... 65 %
14 days ..... 40 %
28 days ..... 0 %
this absorb profile base on undyed color

Features
- High tensile strength for excellent tissue support.
- Excellent knot security
- Minimal tissue drag damage

Anti-Bacterial sutures also available as Plus™

Gilza™ — Absorbable — Polydioxanone

Common aplications: GILZA is intended for use where an absorbable suture or ligature is indicated.
Bond - Gastroenterology - General Surgery

Raw material
Polyester poly (dioxanone)

Type / Material color
Monofilament /Violet or undyed

Absorption
Within 180 - 220 days

Monofilament
Synthetic

Tensile Strength
14 days ..... 60 %
28 days ..... 50 %
42 days ..... 35 %
Base on USP 4/0(Metric 1.5) and smaller size.

Features
- Easy passage through tissue

Anti-Bacterial sutures also available as Plus™

Kollgut Chrom™ — Absorbable — Chromic Catgut

Common aplications: The reabsorption period is longer than the simple catgut, and must be used in tissue that heals rather slowly.
Gastrointestinal- Mucosa -Dental -Gynecology -Subcutaneous Skin Closure

Raw material
100% Pure Collagen and Treated with Chromic Salts

Type / Material color
Multifilament twisted monofilament, with polished surface/Brown

Absorption
Within 90 days

Multifilament twisted monofilament, withpolished surface

Tensile Strength
21-28days..... 50 %

Features
- Degrades in the body, so it is not necessary to remove the stitches

Kollgut Plain™ — Absorbable — Plain Catgut

Common aplications: The reabsorption period is short. Gastrointestinal- Mucosa -Dental -Gynecology -Subcutaneous Skin Closure

Raw material
100% Pure Collagen

Suture Type/Material color
Multifilament twisted monofilament, with polished surface/Beige

Absorption
Within 70 days

Multifilament twisted monofilament, with polished surface

Tensile Strength
7-10days ..... 50 %

Features
- Degrades in the body, so it is not necessary to remove the stitches

Molylon™ — Non absorbable — Nylon

Common aplications: Plastic surgery, Skin surgery (cuticular) and also ophthalmic.

Raw material
Monofilament Polyamide Nylon 6 – 6.6

Suture Type/Material color
Monofilament/CI 74160 Blue Phthalocyanine.
CI 53185 Black Sulphol Black 1.
CI 75290 Black Logwood Extract

Absorption
Non Absorbable

Monofilament

Tensile Strength
Loss per year ..... 20 %

Features
- Great resistance and pass easily through the tissue

Silda™ — Non absorbable — Silk

Common applications: General use in the approximation of soft tissue and also used and ophthalmic
Cardiology - Bond - Gastroenterology - General Surgery - Cuticular - Plastic Surgery - Retention - Ophthalmology

Raw material
100% Protein fiber spun by silkworm Bombyx Mori

Suture Type/Material color
Braided/CI 53185 Black Sulphur 1, with a formulation of C24 H16 N6 O8 S7.
CI 75290 Logwood Black, Natural Tinctorial Wood Extract obtained from Haematoxylon Campechianum, Conforms to US Code of Federal Regulations 21 CFR 73.1410

Absorption
Non Absorbable

Multifilament

Tensile Strength
1 year ..... 0 %

Features
- Great resistance and flexibility for the knots

Restel™ — Non absorbable — Polyester

Common aplications: Indicated for cardiovascular, ophthalmic and general soft tissue approximation and or ligation.
Cardiovascular- Ophthalmic - General Surgery

Raw material
Poly (ethylene, terephtalate). Available by Silicone coated, Wax coated, Filodel coated or uncoated

Suture Type/Material color
Braided/D. & C. Green No. 6 C.I. 61565 or White (undyed)

Absorption
Non Absorbable

Multifilament

Tensile Strength
Not subject to any degradation or loss of tensile strength

Features
- Excellent smoothness.
- Uniform surface to minimize the trauma
- Easy knot handling

Pidilen™ — Non absorbable — Polypropylene

Common aplications: Indicated for cardiovascular, ophthalmic, general closures, orthopedics, plastic and microsurgeries, soft tissue approximation and or ligation
Highly visible in the wound and unwetted by blood
Orthopedics - Plastic Surgery - General Surgery - Microsurgery - Vascular and Cardiovascular Surgery

Raw material
Polypropylene

Suture Type/Material color
Monofilament/Blue

Absorption
Non Absorbable

Monofilament

Tensile Strength
Not subject to any degradation or loss of tensile strength

Features
- Excellent smoothness.
- Uniform surface to minimize the trauma,
- Easy knot handling,

Koflon™ Non absorbable PTFE

Common aplications:
Indicated for cardiovascular, ophthalmic, general closures, orthopedics, plastic and microsurgeries, soft tissue approximation and or ligation.
Dental -Subcutaneous Skin Closure - Cardiovascular and Vascular Surgery

Raw material
100% PTFE Medical Grade

Suture Type/Material color
Monofilament/White

Absorption
Non Absorbable

Monofilament

Tensile Strength
Not subject to any degradation or loss of tensile strength

Features
- Excellent smoothness.
- Ultra-smooth surface to minimize the trauma,
- Ultra-soft provides Easy knot handling,
- Good elasticity

Kollnova™ Non absorbable PVDF

Common aplications:
Indicated for cardiovascular, ophthalmic, general closures, orthopedics, plastic and microsurgeries, soft tissue approximation and or ligation.
Highly visible in the wound and unwetted by blood
Micro Surgery - Plastic Surgery - General Surgery - Subcutaneous Skin Closure - Cardiovascular and Vascular Surgery

Raw material
Polyvinylidenfluoride Medical Grade

Suture Type/Material color
Monofilament/Blue

Absorption
Non Absorbable

Monofilament

Tensile Strength
Not subject to any degradation or loss of tensile strength

Features
- Excellent smoothness.
- Uniform surface to minimize the trauma,
- Less memory than Polypropylene
- Easy knot handling,

RIKID™ Non absorbable Stainless Steel

Common aplications:
Indicated for Surgical stainless steel suture is indicated for use in abdominal wound closure, hernia repair, sternal closure and orthopaedic procedures including cerclage and tendon repair.
Orthopaedic-Maxillofacial -Spine surgery

Raw material
316LVM stainless steel

Suture Type/Material color
Monofilament/Metal Gray

Absorption
Non Absorbable

Monofilament

Tensile Strength
Not subject to any degradation or loss of tensile strength

Features
- Easy passage through tissue.
- Stability and reliability

Rastoro™ Absorbable Polyglycolic Acid

Needle	Point Shape	Needle Description	Length	USP SIZE			
				2-0	0	#1	#2
	◎	31mm 1/2 Blunt Point	75cm	PYV020BPN31B075-1			
	◎	36mm 1/2 Blunt Point	75cm	PYV020BPN36B075-1			
	◎	36mm 1/2 Blunt Point Heavy	75cm 90cm	PYV020BPH36B075-1		PYV001BPH36B090-1	
	◎	40mm 1/2 Blunt Point	75cm		PYV000BPN40B075-1	PYV001BPN40B075-1	
	◎	40mm 1/2 Blunt Point Heavy	90cm		PYV000BPH40B090-1	PYV001BPH40B090-1	
	◎	45mm 1/2 Blunt Point	90cm			PYV001BPN45B090-1	PYV002BPN45B090-1
	◎	48mm 1/2 Blunt Point	90cm		PYV000BPN48B090-1	PYV001BPN48B090-1	
	◎	65mm 3/8 Blunt Point	100cm			PYV001BPN65C100-1	

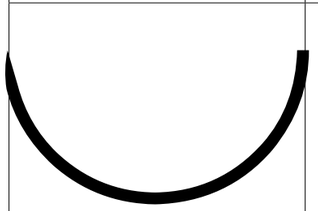
Rastoro™ Absorbable Polyglycolic Acid

Needle	Point Shape	Needle Description	Length	USP SIZE				
				6-0	5-0	4-0	3-0	2-0
	⊙	13mm 3/8 Taper	60cm			PYV040TPN13C060-1		
	⊙	17mm 3/8 Taper	45cm			PYV040TPN17C045-1		
	⊙	13mm 1/2 Taper	45cm	PYU060TPN13B045-1	PYV020BPN31B075-1			
	⊙	17mm 1/2 Taper	75cm		PYV050TPN1B075-1	PYV040TPN1B075-1		
	⊙	20mm 1/2 Taper	75cm			PYV040TPN20B075-1	PYV030TPN20B075-1	
	⊙	22mm 1/2 Taper	8*45cm			PYV040TPN22B045-1*8	PYV030TPN22B045-1*8	PYV020TPN22B045-1*8
	⊙	22mm 1/2 Taper	8*70cm				PYV030TPN22B070-1*8	
	⊙	26mm 1/2 Taper visi-black	70cm				PYV030TPB26B070-1	PYV020TPB26B070-1
	⊙	26mm 1/2 Taper	8*45cm				PYV030TPN26B045-1*8	PYV020TPN26B045-1*8
	⊙	26mm 1/2 Taper	8*70cm				PYV030TPN26B070-1*8	PYV020TPN26B070-1*8
	⊙	26mm 1/2 Taper	75cm				PYV030TPN26B075-1	PYV020TPN26B075-1
	⊙	31mm 1/2 Taper Double	75cm 100cm					PYV020TPN31B075-2 PYV020TPN31B100-2

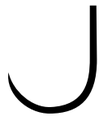
Rastoro™ Absorbable Polyglycolic Acid

Needle	Point Shape	Needle Description	Length	USP SIZE			
				2-0	0	#1	#2
	⊙	31mm 1/2 Taper	4*70cm	PYV020TPN31B070-1*4	PYV000TPN31B070-1*4		
	⊙	31mm 1/2 Taper	75cm	PYV020TPN31B075-1	PYV000TPN31B075-1	PYV001TPN31B075-1	
	⊙	36mm 1/2 Taper	8*70cm	PYV020TPN36B070-1*8	PYV000TPN36B070-1*8		
	⊙	36mm 1/2 Taper	75cm 90cm	PYV020TPN36B075-1 PYV020TPN36B090-1	PYV000TPN36B075-1 PYV000TPN36B090-1		
	⊙	40mm 1/2 Taper	75cm	PYV020TPN40B075-1	PYV000TPN40B075-1		
	⊙	13mm 1/2 Taper Heavy	70cm	PYV020TPH13B070-1			
	⊙	26mm 1/2 Taper Heavy	90cm			PYV001TPH26B090-1	
	⊙	31mm 1/2 Taper Heavy	75cm		PYV000TPH31B075-1	PYV001TPH31B075-1	
	⊙	36mm 1/2 Taper Heavy	8*45cm		PYV000TPH36B045-1*8	PYV001TPH36B045-1*8	
	⊙	36mm 1/2 Taper Heavy	4*70cm			PYV001TPH36B070-1*4	PYV002TPH36B070-1*4
	⊙	36mm 1/2 Taper Heavy	90cm			PYV001TPH36B090-1	
	⊙	40mm 1/2 Taper Heavy	8*45cm			PYV001TPH40B045-1*8	PYV002TPH40B045-1*8

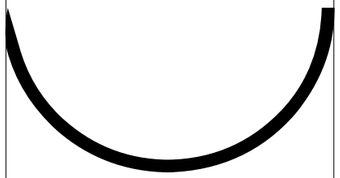
Rastoro™ Absorbable Polyglycolic Acid

Needle	Point Shape	Needle Description	Length	USP SIZE			
				2-0	0	#1	#2
	⊙	40mm 1/2 Taper Heavy	4*70cm			PYV001TPH40B070-1*4	PYV002TPH40B070-1*4
	⊙	40mm 1/2 Taper Heavy	75cm 90cm		PYV000TPH40B075-1 PYV000TPH40B090-1	PYV001TPH40B075-1 PYV001TPH40B090-1	
	⊙	45mm 1/2 Taper Heavy	75cm		PYV000TPH45B075-1	PYV001TPH45B075-1	PYV002TPH45B075-1
	⊙	48mm 1/2 Taper Heavy	8*45cm			PYV001TPH48B045-1*8	PYV002TPH48B045-1*8
	⊙	48mm 1/2 Taper Heavy	75cm 90cm		PYV000TPH48B075-1 PYV000TPH48B090-1	PYV001TPH48B075-1 PYV001TPH48B090-1	PYV002TPH48B075-1 PYV002TPH48B090-1
	⊙	65mm 1/2 Taper Heavy	75cm	PYV020TPH65B075-1			
	⊙	80mm 1/2 Taper Heavy	100cm			PYV001TPH80B100-1	
	⊙	36mm 5/8 Taper Heavy	70cm	PYV020TPH36D070-1			
	⊙	40mm 5/8 Taper Heavy	75cm		PYV000TPH40D075-1		

Rastoro™ Absorbable Polyglycolic Acid

Needle	Point Shape	Needle Description	Length	USP SIZE				
				4-0	3-0	2-0	0	#1
	⊙	22mm J Taper	75cm	PYV040TPN22F075-1	PYV030TPN22F075-1			
	⊙	36mm J Taper	75cm			PYV020TPN36F075-1	PYV000TPN36F075-1	
	☮	13mm 3/8 Tapercut	75cm	PYV040TCN13C075-1				
	☮	20mm 1/2 Tapercut	75cm		PYV030TCN20B075-1			
	☮	17mm 3/8 Tapercut	75cm	PYU040TCN17C075-1	PYU030TCN17C075-1			
	☮	22mm 1/2 Tapercut	70cm 70cm 75cm	PYU040TCN22B070-1	PYV030TCN22B070-1	PYV020TCN22B075-1		
	☮	26mm 1/2 Tapercut	75cm		PYV030TCN26B075-1	PYV020TCN26B075-1		
	☮	26mm 1/2 Tapercut Heavy	75cm			PYV020TCH26B075-1		
	☮	31mm 1/2 Tapercut	75cm			PYV020TCN31B075-1	PYV000TCN31B075-1	PYV001TCN31B075-1
	☮	36mm 1/2 Tapercut	75cm 90cm			PYV030TCN36B090-1	PYV020TCN36B075-1 PYV020TCN36B090-1	PYV000TCN36B075-1 PYV000TCN36B090-1

Rastoro™ Absorbable Polyglycolic Acid

Needle	Point Shape	Needle Description	Length	USP SIZE			
				2-0	0	#1	#2
	⌀	36mm 1/2 Tapercut Heavy	75cm 90cm			PYV001TCH36B075-1 PYV001TCH36B090-1	PYV002TCH36B075-1
	⌀	40mm 1/2 Tapercut	75cm 75cm 90cm	PYU020TCN40B075-1 PYV020TCN40B090-1	PYU000TCN40B075-1 PYV000TCN40B090-1	PYV001TCN40B075-1 PYV001TCN40B090-1	
	⌀	40mm 1/2 Tapercut Heavy	75cm 75cm	PYV020TCH40B075-1 PYU020TCH40B075-1	PYV000TCH40B075-1 PYU000TCH40B075-1	PYV001TCH40B075-1 PYU001TCH40B075-1	
	⌀	45mm 1/2 Tapercut	75cm	PYV020TCN45B075-1	PYV000TCN45B075-1	PYV001TCN45B075-1	PYV002TCN45B075-1
	⌀	80mm 1/2 Tapercut	75cm		PYV000TCN80B075-1	PYV001TCN80B075-1	
	⌀	31mm J Tapercut	75cm			PYV001TCN31F075-1	
	▽	22mm 1/2 Reverse Cutting	70cm 75cm			PYU001RCN22B070-1	PYV002RCN22B075-1
	▽	40mm 1/2 Reverse Cutting	75cm 90cm		PYV000RCN40B075-1 PYV000RCN40B090-1	PYV001RCN40B075-1 PYV001RCN40B090-1	
	▽	48mm 1/2 Reverse Cutting	75cm 90cm		PYV000RCN48B075-1 PYV000RCN48B090-1	PYV001RCN48B075-1 PYV001RCN48B090-1	PYV002RCN48B075-1 PYV002RCN48B090-1

Rastoro™ Absorbable Polyglycolic Acid

Needle	Point Shape	Needle Description	Length	USP SIZE			
				5-0	4-0	3-0	2-0
	▽	11mm 3/8 Reverse Cutting premium	45cm	PYU050RPN11C045-1			
	▽	19mm 3/8 Reverse Cutting premium	45cm	PYU050RPN19C045-1	PYU040RPN19C045-1	PYU050RPN19C045-1	
	▽	26mm 3/8 Reverse Cutting premium	45cm 75cm			PYU030RPN26C045-1 PYU030RPN26C075-1	PYU020RPN26C075-1
	▽	19mm 3/8 Reverse Cutting	45cm 45cm		PYV040RCN19C045-1 PYU040RCN19C045-1		
	▽	26mm 3/8 Reverse Cutting	45cm 75cm			PYV030RCN26C045-1 PYU030RCN26C075-1	
	▽	36mm 3/8 Reverse Cutting	75cm				PYV020RCN36C075-1
	▽	45mm 3/8 Reverse Cutting	75cm				PYV020RCN45C075-1
	△	13mm 3/8 Conventional Cutting Premium	45cm	PYU050CPN13C045-1			
	△	16mm 3/8 Conventional Cutting Premium	45cm	PYU050CPN16C045-1	PYU040CPN16C045-1	PYU030CPN16C045-1	
	△	19mm 3/8 Conventional Cutting Premium	45cm		PYU040CPN19C045-1	PYU030CPN19C045-1	
	△	26mm 3/8 Conventional Cutting Premium	45cm 75cm		PYU040CPN26C045-1 PYU040CPN26C075-1	PYU030CPN26C045-1 PYU030CPN26C075-1	PYU020CPN26C045-1 PYU020CPN26C075-1
	△	36mm 3/8 Conventional Cutting Premium	75cm			PYU030CPN36C075-1	PYU020CPN36C075-1
	△	16mm 3/8 Conventional Cutting	75cm	PYV050CCN16C075-1	PYV040CCN16C075-1	PYV030CCN16C075-1	
	△	22mm 1/2 Conventional Cutting	45cm 45cm		PYV040CCN2B045-1	PYV030CCN2B045-15 PYU030CCN2B045-15	
	△	26mm 5/8 Conventional Cutting	75cm			PYU030CCN26D075-1	
	▽	13mm Straight Cutting	45cm		PYV040RCN13E045-1		
	▽	45mm Straight Cutting	45cm		PYU040RCN45E045-1		
	▽	55mm Straight Cutting	75cm				PYU020RCN55E075-1
	▽	60mm Straight Cutting	75cm 75cm			PYU030RCN60E075-1	PYV020RCN60E075-1 PYU020RCN60E075-1
	▽	60mm Straight Cutting premium	75cm 75cm			PYV030RPN60E075-1 PYU030RPN60E075-1	

Rastoro™ Absorbable Polyglycolic Acid

Needle	Point Shape	Needle Description	Length	USP SIZE				
				8-0	7-0	6-0	5-0	4-0
		17mm 5/8 Tapercut	75cm					PYU040TCN17D075-1
		6.4mm 3/8 Spatula Double	30cm 45cm	PYV080SPN6.4C030-2 PYV080SPN6.4C045-2	PYV070SPN6.4C030-2			
		6.4mm 3/8 Spatula	10cm	PYV080SPN6.4C010-2				
		7mm 1/2 Spatula Double	30cm 45cm	PYV080SPN07B030-2	PYV070SPN07B045-2			
		11mm 3/8 Reverse Cutting Double	45cm			PYV060RCN11C045-2		
		8mm 3/8 Reverse Cutting Double	30cm	PYV080RCN08C030-2				
		8mm 1/4 Spatula Double	20cm 45cm 45cm			PYV060SPN08A020-2 PYV060SPN08A045-2 PYU060SPN08A045-2	PYV050SPN08A045-2 PYU050SPN08A045-2	
		8mm 1/4 Spatula Double	45cm					PYV040SPN08A045-2
		11mm 3/8 Spatula Double	45cm			PYU060SPN11C045-2	PYU050SPN11C045-2	PYU040SPN11C045-2
		8mm 1/2 Spatula Double	20cm 45cm 45cm			PYV060SPN08B020-2 PYV060SPN08B045-2 PYU060SPN08B045-2	PYV050SPN08B045-2	
		10mm 5/8 Tapercut	30cm			PYV060TCN10D030-1		
		13mm 3/8 Reverse Cutting Double	45cm				PYV050RCN13C045-2	PYV040RCN13C045-2
		9.3mm 3/8 Taper	15cm 30cm	PYV080TPN9.3C030-1		PYV060TPN9.3C030-1		
		19mm Straight visi-black	20cm					PYV040TPB19E020-1

Rastoro Precut™ Absorbable Polyglycolic Acid

RASTORO	5-0	Braided	Violet	150cm*1	precut	PYV05015001
RASTORO	4-0	Braided	Violet	150cm*1	precut	PYV04015001
RASTORO	3-0	Braided	Violet	150cm*1	precut	PYV03015001
RASTORO	2-0	Braided	Violet	150cm*1	precut	PYV02015001
RASTORO	0	Braided	Violet	150cm*1	precut	PYV00015001
RASTORO	1	Braided	Violet	150cm*1	precut	PYV00115001
RASTORO	2	Braided	Violet	150cm*1	precut	PYV00215001
RASTORO	4-0	Braided	Violet	45cm*6	precut	PYV04004506
RASTORO	3-0	Braided	Violet	45cm*6	precut	PYV03004506
RASTORO	2-0	Braided	Violet	45cm*6	precut	PYV02004506
RASTORO	0	Braided	Violet	45cm*6	precut	PYV00004506
RASTORO	1	Braided	Violet	45cm*6	precut	PYV00104506
RASTORO	3-0	Braided	Violet	250cm	reel	PYV03025001R
RASTORO	2-0	Braided	Violet	250cm	reel	PYV02025001R
RASTORO	0	Braided	Violet	250cm	reel	PYV00025001R
RASTORO	1	Braided	Violet	250cm	reel	PYV00125001R

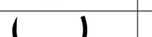
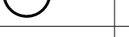
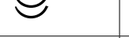
Rastoro Fast ™ Absorbable Polyglycolic Acid fast

Needle	Point Shape	Needle Description	Length	USP SIZE				
				5-0	4-0	3-0	2-0	0
	⊙	17mm 1/2 Taper Point	75cm	PRU050TPN17B075-1	PRU040TPN17B075-1			
	⊙	22mm 1/2 Taper Point	75cm		PRU040TPN22B075-1	PRU030TPN22B075-1		
	⊙	31mm 1/2 Taper Point	75cm				PRU020TPN31B075-1	
	⊙	40mm 1/2 Taper Point Heavy	90cm					PRU000TPH40B090-1
	⊙	48mm 1/2 Taper Point Heavy	90cm				PRU020TPH48B090-1	
	✇	26mm 1/2 Taper-cut	90cm				PRU020TCN26B090-1	
	✇	36mm 1/2 Taper-cut	90cm 120cm				PRU020TCN36B090-1 PRU020TCN36B120-1	PRU000TCN36B090-1
	✇	40mm 1/2 Taper-cut	90cm				PRU020TCN40B090-1	
	✇	45mm 1/2 Taper-cut	90cm				PRU020TCN45B090-1	
	▽	26mm 1/2 Reverse Cutting	75cm				PRU020RCN26B075-1	

Rastoro Fast ™ Absorbable Polyglycolic Acid fast

Needle	Point Shape	Needle Description	Length	USP SIZE				
				6-0	5-0	4-0	3-0	2-0
	▽	11mm 3/8 Reverse Cutting	45cm	PRU060RCN11C045-1	PRU050RCN11C045-1			
	▽	13mm 3/8 Premium Reverse Cutting	45cm		PRU050RPN13C045-1	PRU040RPN13C045-1		
	▽	19mm 3/8 Premium Reverse Cutting	75cm			PRU040RPN19C075-1	PRU030RPN19C075-1	
	▽	26mm 3/8 Premium Reverse Cutting	75cm				PRU030RPN26C075-1	PRU020RPN26C075-1
	▽	36mm 3/8 Premium Reverse Cutting	75cm				PRU030RPN36C075-1	PRU020RPN36C075-1
	▽	13mm 3/8 Reverse Cutting	75cm			PRU040RCN13C075-1		
	▽	19mm 3/8 Reverse Cutting	75cm			PRU040RCN19C075-1	PRU030RCN13C075-1	PRU020RCN19C075-1
	▽	26mm 3/8 Reverse Cutting	75cm				PYV020BPN31B075-1	PYV020BPN31B075-1
	△	16mm 3/8 Premium Cutting	75cm			PRU040CPN16C075-1	PRU030CPN16C075-1	
	△	16mm 3/8 Conventional Cutting	75cm			PRU040CCN16C075-1	PRU030CCN16C075-1	

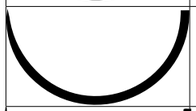
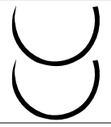
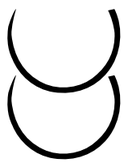
Rastoro Fast ™ — Absorbable — Polyglycolic Acid fast

Needle	Point Shape	Needle Description	Length	USP SIZE				
				8-0	7-0	6-0	4-0	3-0
		11mm 3/8 Reverse Cutting	45cm	PRU060RCN11C045-1	PRU050RCN11C045-1			
		13mm 3/8 Premium Reverse Cutting	45cm		PRU050RPN13C045-1	PRU040RPN13C045-1		
		19mm 3/8 Premium Reverse Cutting	75cm			PRU040RPN19C075-1	PRU030RPN19C075-1	
		26mm 3/8 Premium Reverse Cutting	75cm				PRU030RPN26C075-1	PRU020RPN26C075-1
		36mm 3/8 Premium Reverse Cutting	75cm				PRU030RPN36C075-1	PRU020RPN36C075-1
		13mm 3/8 Reverse Cutting	75cm			PRU040RCN13C075-1		
		19mm 3/8 Reverse Cutting	75cm			PRU040RCN19C075-1	PRU030RCN13C075-1	PRU020RCN19C075-1
		26mm 3/8 Reverse Cutting	75cm				PYV020BPN31B075-1	PYV020BPN31B075-1
		16mm 3/8 Premium Cutting	75cm			PRU040CPN16C075-1	PRU030CPN16C075-1	
		16mm 3/8 Conventional Cutting	75cm			PRU040CCN16C075-1	PRU030CCN16C075-1	
		22mm 1/2 Premium Cutting	45cm					PRU030CPN22B045-1
		22mm 1/2 Conventional Cutting	45cm				PRU040CCN22B045-1	PRU030CCN22B045-1
		26mm 5/8 Conventional Cutting	75cm					PRU030CCN26D075-1
		13mm Straight Cutting	45cm				PRU040RCN13E045-1	
		45mm Straight Cutting	45cm				PRU040RCN45E045-1	
		60mm Straight Cutting	75cm					PRU030RCN60E075-1
		17mm 5/8 Taper-cut	75cm				PRU040TCN17D075-1	
		6.5mm 3/8 Spatula	30cm	PRV080SPN6.4C030-1		PRV060SPN6.4C030-1		
		6.5mm 3/8 Spatula Double	30cm 45cm	PRV080SPN6.4C030-2	PRV070SPN6.4C045-2			
		6.5mm 3/8 Spatula Double	30cm		PRV070SPN6.4C030-2			
		9.3mm 3/8 Taper Point	30cm	PRV080TPN9.3C030-1				

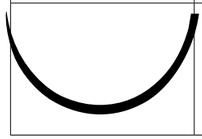
Gilza ™ — Absorbable — Polydioxanone

Needle	Point Shape	Needle Description	Length	USP SIZE				
				7-0	6-0	5-0	4-0	3-0
		31mm 1/2 Blunt Point	70cm					PDV030BPN31B070-1
		45mm 1/2 Blunt Point	90cm	USP 1 PDV001BPN45B090-1				
		48mm 1/2 Blunt Point	150cm loop	USP 0 PDV000BPN48B150-1L	USP 1 PDV001BPN48B150-1L			
		9.3mm 3/8 Taper point Double	45cm 70cm	PDV070TPN9.3C070-2	PDV060TPN9.3C045-2 PDV060TPN9.3C070-2			
		11mm 3/8 Taper point Double	45cm 70cm		PDV060TPN11C045-2 PDV060TPN11C070-2			
		13mm 3/8 Taper point Double	45cm	PDV070TPN13C045-2	PDV060TPN13C045-2			
		13mm 3/8 Taper point Double	70cm		PDV060TPN13C070-2			
		13mm 1/2 Taper point Double	70cm			PDV050TPN13B070-2		
		17mm 1/2 Taper point Double	90cm			PDV050TPN17B090-2	PDV040TPN17B090-2	
		13mm 3/8 Taper point	70cm			PDV050TPN13C070-1		
		13mm 3/8 Taper point Double	70cm		PDV060TPN13B070-2			
		17mm 3/8 Taper point	70cm			PDV050TPN17C070-1	PDV040TPN17C070-1	
		13mm 1/2 Taper point	45cm		PDV060TPN13B045-1	PDV050TPN13B045-1	PDV040TPN13B045-1	
		20mm 1/2 Taper point	70cm				PDV040TPN20B070-1	PDV030TPN20B070-1
		26mm 1/2 Taper point	70cm	USP 0 PDV000TPN26B070-1				
		26mm 1/2 Taper point	70cm					PDV030TPN26B070-1

Gilza ™ Absorbable Polydioxanone

Needle	Point Shape	Needle Description	Length	USP SIZE				
				3-0	2-0	0	#1	#2
	⊙	31mm 1/2 Taper point	70cm	PDV030TPN31B070-1	PDV020TPN31B070-1	PDV000TPN31B070-1		
	⊙	31mm 1/2 Taper point Double	90cm	PDV030TPN31B090-2				
	⊙	40mm 1/2 Taper point	70cm	PDV030TPN40B070-1	PDV020TPN40B070-1			
	⊙	36mm 1/2 Taper point Heavy	70cm		PDV020TPH36B070-1	PDV000TPH36B070-1	PDV001TPH36B070-1	
	⊙	40mm 1/2 Taper point Heavy	70cm 90cm			PDV000TPH40B070-1	PDV001TPH40B090-1	PDV002TPH40B090-1
	⊙	40mm 1/2 Taper point Heavy	150cm loop			PDV000TPH40B150L-1	PDV001TPH40B150L-1	
	⊙	26mm 1/2 Taper point Heavy	70cm		PDV020TPH26B070-1	PDV000TPH26B070-1	PDV001TPH26B070-1	
	⊙	45mm 1/2 Taper point Heavy	90cm				PDV001TPH48B090-1	
	⊙	48mm 1/2 Taper point Heavy	90cm			PDV000TPH48B090-1	PDV001TPH48B090-1	PDV002TPH48B090-1
	⊙	48mm 1/2 Taper point Heavy	150cm loop			PDV000TPH48B150-1L	PDV001TPH48B150-1L	
	⊙	26mm 5/8 Taper point Double	70cm	PDV030TPN25D070-2				
	⊙	36mm 5/8 Taper point Double	70cm		PDV020TPN36D070-2			

Gilza ™ Absorbable Polydioxanone

Needle	Point Shape	Needle Description	Length	USP SIZE				
				7-0	6-0	2-0	0	#1
	⊙	36mm J Taper point	70cm			PDV020TPN36F070-1		
	◬	9.3mm 3/8 Cutting	70cm	PDV070CCN9.3C070-1				
	◬	9.3mm 3/8 Cutting Double	70cm	PDV070CCN9.3C070-2	PDV060CCN9.3C070-2			
	◬	13mm 3/8 Cutting Double	70cm		PDV060CCN13C070-2			
	☮	26mm 1/2 Taper-cut	70cm			PDV020TCN26B070-1		
	☮	36mm 1/2 Taper-cut	70cm 90cm			PDV020TCN36B070-1	PDV000TCN36B090-1	PDV001TCN36B090-1
	☮	36mm 1/2 Taper-cut Heavy	90cm				PDV000TCH36B090-1	PDV001TCH36B090-1
	☮	40mm 1/2 Taper-cut	90cm				PDV000TCN40B090-1	PDV001TCN40B090-1
	☮	40mm 1/2 Taper-cut Heavy	90cm				PDV000TCH40B090-1	PDV001TCH40B090-1
	☮	40mm 1/2 Taper-cut Heavy	240cm loop					PDV001TCH40B240L-1
	☮	45mm 1/2 Taper-cut	90cm					PDV001TCN45B090-1
	☮	48mm 1/2 Taper-cut	90cm				PDV000TCN48B090-1	PDV001TCN48B090-1

Gilza ™ Absorbable Polydioxanone

Needle	Point Shape	Needle Description	Length	USP SIZE				
				6-0	5-0	4-0	3-0	#1
		31mm J Taper-cut	70cm					PDV001TCN31F070-1
		22mm 1/2 Reverse Cutting	70cm					PDV001RCN22B070-1
		40mm 1/2 Reverse Cutting	90cm					PDV001RCN40B090-1
		48mm 1/2 Reverse Cutting	90cm					PDV001RCN48B090-1
		16mm 3/8 Reverse Cutting Prime	45cm		PDV050RPN16C045-1	PDV040RPN16C045-1		
		19mm 3/8 Reverse Cutting Prime	45cm			PDV040RPN19C045-1		
		11mm 3/8 Reverse Cutting Prime	45cm	PDV060RPN11C045-1				
		26mm 3/8 Reverse Cutting Prime	70cm			PDV040RPN26C070-1		
		19mm 3/8 Reverse Cutting	45cm			PDV040RCN19C045-1		
		26mm 3/8 Reverse Cutting	45cm				PDV030RCN19C045-1	
		13mm 3/8 Cutting Prime	45cm	PDV060CPN13C045-1	PDV050CPN13C045-1			
		16mm 3/8 Cutting Prime	45cm		PDV050CPN16C045-1	PDV040CPN16C045-1		
		19mm 3/8 Cutting Prime	45cm		PDV050CPN19C045-1	PDV040CPN19C045-1		
		26mm 3/8 Cutting Prime	45cm			PDV040CPN26C045-1		
		26mm 3/8 Cutting Prime	70cm				PDV030CPN26C070-1	
		36mm 3/8 Cutting Prime	70cm	USP 2-0 PDV020CPN36C070-1				

Gilza ™ Absorbable Polydioxanone

Needle	Point Shape	Needle Description	Length	USP SIZE			
				5-0	4-0	3-0	2-0
		16mm 3/8 Cutting	70cm	PDV050CCN16C070-1	PDV040CCN16C070-1		
		22mm 1/2 Cutting	45cm			PDV030CCN16C070-1	
		60mm Straight Cutting	70cm			PDV030RCN60E070-1	PDV020RCN60E070-1
		60mm Straight Cutting	70cm		PDV040RCN60E070-1	PDV030RCN60E070-1	
		60mm Straight Cutting	90cm			PDV030RCN60E090-1	
		19mm Straight Point	20cm		PDV040RCN19E020-1		

Gilza Precut ™ Absorbable Polydioxanone

GILZA	1#	Mono	Violet	45*9	precut	PDV00104509
GILZA	0	Mono	Violet	45*10	precut	PDV00004510
GILZA	2-0	Mono	Violet	45*11	precut	PDV02004511

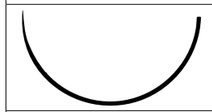
Radik ™ Absorbable Polyglactin 910

Needle	Point Shape	Needle Description	Length	USP SIZE			
				2-0	0	#1	#2
	◎	31mm 1/2 Blunt Point	75cm	PLV020BPN31B075-1			
	◎	36mm 1/2 Blunt Point	75cm	PLV020BPN36B075-1			
	◎	36mm 1/2 Blunt Point Heavy	75cm 90cm	PLV020BPH36B075-1		PLV001BPH36B090-1	
	◎	40mm 1/2 Blunt Point	75cm		PLV000BPN40B075-1	PLV001BPN40B075-1	
	◎	40mm 1/2 Blunt Point Heavy	90cm		PLV000BPH40B090-1	PLV001BPH40B090-1	
	◎	45mm 1/2 Blunt Point	90cm			PLV001BPN45B090-1	PLV002BPN45B090-1
	◎	48mm 1/2 Blunt Point	90cm		PLV000BPN48B090-1	PLV001BPN48B090-1	
	◎	65mm 3/8 Blunt Point	100cm			PLV001BPN65C100-1	

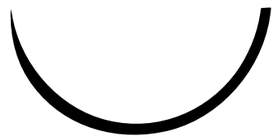
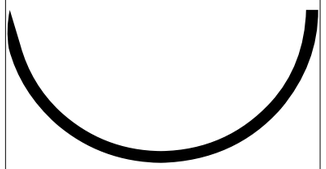
Radik ™ Absorbable Polyglactin 910

Needle	Point Shape	Needle Description	Length	USP SIZE				
				5-0	4-0	3-0	2-0	0
	⊙	13mm 3/8 Taper	60cm		PLV040TPN13C060-1			
	⊙	17mm 3/8 Taper	45cm		PLV040TPN17C045-1			
	⊙	13mm 1/2 Taper	45cm	PLU050TPN13B045-1				
	⊙	17mm 1/2 Taper	75cm	PLV050TPN1B075-1	PLV040TPN1B075-1			
	⊙	20mm 1/2 Taper	75cm		PLV040TPN20B075-1	PLV030TPN20B075-1		
	⊙	22mm 1/2 Taper	8*45cm		PLV040TPN22B045-1*8	PLV030TPN22B045-1*8	PLV020TPN22B045-1*8	
	⊙	22mm 1/2 Taper	8*70cm			PLV030TPN22B070-1*8		
	⊙	26mm 1/2 Taper visi-black	70cm			PLV030TPB26B070-1	PLV020TPB26B070-1	
	⊙	26mm 1/2 Taper	8*45cm			PLV030TPN26B045-1*8	PLV020TPN26B045-1*8	
	⊙	26mm 1/2 Taper	8*70cm			PLV030TPN26B070-1*8	PLV020TPN26B070-1*8	
	⊙	26mm 1/2 Taper	75cm			PLV030TPN26B075-1	PLV020TPN26B075-1	
	⊙	31mm 1/2 Taper Double	75cm 100cm				PLV020TPN31B075-2 PLV020TPN31B100-2	
	⊙	31mm 1/2 Taper	4*70cm			PLV030TPN31B070-1*4	PLV020TPN31B070-1*4	PLV000TPN31B070-1*4
	⊙	31mm 1/2 Taper	75cm			PLV030TPN31B075-1	PLV020TPN31B075-1	PLV000TPN31B075-1

Radik ™ Absorbable Polyglactin 910

Needle	Point Shape	Needle Description	Length	USP SIZE			
				2-0	0	#1	#2
	⊙	36mm 1/2 Taper	8*70cm	PLV020TPN36B070-1*8	PLV000TPN36B070-1*8		
	⊙	36mm 1/2 Taper	75cm 90cm	PLV020TPN36B075-1 PLV020TPN36B090-1	PLV000TPN36B075-1 PLV000TPN36B090-1		
	⊙	40mm 1/2 Taper	75cm	PLV020TPN40B075-1	PLV000TPN40B075-1		
	⊙	13mm 1/2 Taper Heavy	70cm	PLV020TPH13B070-1			
	⊙	26mm 1/2 Taper Heavy	90cm			PLV001TPH26B090-1	
	⊙	31mm 1/2 Taper Heavy	75cm		PLV000TPH31B075-1	PLV001TPH31B075-1	
	⊙	36mm 1/2 Taper Heavy	8*45cm		PLV000TPH36B045-1*8	PLV001TPH36B045-1*8	
	⊙	36mm 1/2 Taper Heavy	4*70cm			PLV001TPH36B070-1*4	PLV002TPH36B070-1*4
	⊙	36mm 1/2 Taper Heavy	90cm			PLV001TPH36B090-1	
	⊙	40mm 1/2 Taper Heavy	8*45cm			PLV001TPH40B045-1*8	PLV002TPH40B045-1*8
	⊙	40mm 1/2 Taper Heavy	4*70cm			PLV001TPH40B070-1*4	PLV002TPH40B070-1*4
	⊙	40mm 1/2 Taper Heavy	75cm 90cm		PLV000TPH40B075-1 PLV000TPH40B090-1	PLV001TPH40B075-1 PLV001TPH40B090-1	

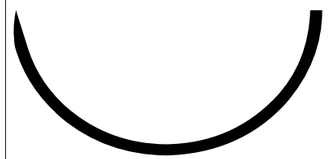
Radik ™ Absorbable Polyglactin 910

Needle	Point Shape	Needle Description	Length	USP SIZE			
				2-0	0	#1	#2
	⊙	45mm 1/2 Taper Heavy	75cm		PLV000TPH45B075-1	PLV001TPH45B075-1	PLV002TPH45B075-1
	⊙	48mm 1/2 Taper Heavy	8*45cm			PLV001TPH48B045-1*8	PLV002TPH48B045-1*8
	⊙	48mm 1/2 Taper Heavy	75cm 90cm		PLV000TPH48B075-1 PLV000TPH48B090-1	PLV001TPH48B075-1 PLV001TPH48B090-1	PLV002TPH48B075-1 PLV002TPH48B090-1
	⊙	65mm 1/2 Taper Heavy	75cm	PLV020TPH65B075-1			
	⊙	80mm 1/2 Taper Heavy	100cm			PLV001TPH80B100-1	
	⊙	36mm 5/8 Taper Heavy	70cm	PLV020TPH36D070-1			
	⊙	40mm 5/8 Taper Heavy	75cm		PLV000TPH40D075-1		
	⊙	22mm J Taper	75cm	USP 3-0 PLV030TPN22F075-1	USP 4-0 PLV040TPN22F075-1		
	⊙	36mm J Taper	75cm	PLV020TPN36F075-1	PLV000TPN36F075-1		

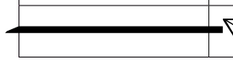
Radik ™ Absorbable Polyglactin 910

Needle	Point Shape	Needle Description	Length	USP SIZE				
				5-0	4-0	3-0	2-0	0
		13mm 3/8 Tapercut	75cm	PLV050TCN13C075-1	PLV040TCN13C075-1			
		20mm 1/2 Tapercut	75cm			PLV030TCN20B075-1		
		17mm 3/8 Tapercut	75cm	PLU050TCN17C075-1	PLU040TCN17C075-1	PLU030TCN17C075-1		
		22mm 1/2 Tapercut	70cm 75cm		PLU040TCN22B070-1	PLV030TCN22B070-1	PLV020TCN22B075-1	
		26mm 1/2 Tapercut	75cm			PLV030TCN26B075-1	PLV020TCN26B075-1	
		26mm 1/2 Tapercut Heavy	75cm				PLV020TCH26B075-1	
		31mm 1/2 Tapercut	75cm				PLV020TCN31B075-1	PLV000TCN31B075-1
		36mm 1/2 Tapercut	75cm 90cm			PLV030TCN36B090-1	PLV020TCN36B075-1 PLV020TCN36B090-1	PLV000TCN36B075-1 PLV000TCN36B090-1

Radik ™ Absorbable Polyglactin 910

Needle	Point Shape	Needle Description	Length	USP SIZE			
				2-0	0	#1	#2
		36mm 1/2 Tapercut Heavy	75cm 90cm			PLV001TCH36B075-1 PLV001TCH36B090-1	PLV002TCH36B075-1
		40mm 1/2 Tapercut	75cm 75cm 90cm	PLU020TCN40B075-1 PLV020TCN40B090-1	PLU000TCN40B075-1 PLV000TCN40B090-1	PLV001TCN40B075-1 PLV001TCN40B090-1	
		40mm 1/2 Tapercut Heavy	75cm 75cm	PLV020TCH40B075-1 PLU020TCH40B075-1	PLV000TCH40B075-1 PLU000TCH40B075-1	PLV001TCH40B075-1 PLU001TCH40B075-1	
		45mm 1/2 Tapercut	75cm	PLV020TCN45B075-1	PLV000TCN45B075-1	PLV001TCN45B075-1	PLV002TCN45B075-1
		80mm 1/2 Tapercut	75cm		PLV000TCN80B075-1	PLV001TCN80B075-1	
		26mm 1/2 Tapercut Heavy	75cm	PLV020TCH26B075-1			
		31mm 1/2 Tapercut	75cm	PLV020TCN31B075-1	PLV000TCN31B075-1	PLV001TCN31B075-1	
		36mm 1/2 Tapercut	75cm 90cm	PLV020TCN36B075-1 PLV020TCN36B090-1	PLV000TCN36B075-1 PLV000TCN36B090-1		
		31mm J Tapercut	75cm			PLV001TCN31F075-1	
		22mm 1/2 Reverse Cutting	70cm 75cm			PLU001RCN22B070-1	PLV002RCN22B075-1
		40mm 1/2 Reverse Cutting	75cm 90cm		PLV000RCN40B075-1 PLV000RCN40B090-1	PLV001RCN40B075-1 PLV001RCN40B090-1	
		48mm 1/2 Reverse Cutting	75cm 90cm		PLV000RCN48B075-1 PLV000RCN48B090-1	PLV001RCN48B075-1 PLV001RCN48B090-1	PLV002RCN48B075-1 PLV002RCN48B090-1

Radik ™ Absorbable Polyglactin 910

Needle	Point Shape	Needle Description	Length	USP SIZE				
				6-0	5-0	4-0	3-0	2-0
		11mm 3/8 Reverse Cutting premium	45cm	PLU060RPN11C045-1	PLU050RPN11C045-1			
		19mm 3/8 Reverse Cutting premium	45cm		PLU050RPN19C045-1	PLU040RPN19C045-1	PLU050RPN19C045-1	
		26mm 3/8 Reverse Cutting premium	45cm 75cm				PLU030RPN26C045-1 PLU030RPN26C075-1	PLU020RPN26C075-1
		19mm 3/8 Reverse Cutting	45cm 45cm			PLV040RCN19C045-1 PLU040RCN19C045-1		
		26mm 3/8 Reverse Cutting	45cm 75cm				PLV030RCN26C045-1 PLU030RCN26C075-1	
		36mm 3/8 Reverse Cutting	75cm					PLV020RCN36C075-1
		45mm 3/8 Reverse Cutting	75cm					PLV020RCN45C075-1
		13mm 3/8 Conventional Cutting Premium	45cm	PLU060CPN13C045-1	PLU050CPN13C045-1			
		16mm 3/8 Conventional Cutting Premium	45cm		PLU050CPN16C045-1	PLU040CPN16C045-1	PLU030CPN16C045-1	
		19mm 3/8 Conventional Cutting Premium	45cm			PLU040CPN19C045-1	PLU030CPN19C045-1	
		26mm 3/8 Conventional Cutting Premium	45cm 75cm			PLU040CPN26C045-1 PLU040CPN26C075-1	PLU030CPN26C045-1 PLU030CPN26C075-1	PLU020CPN26C045-1 PLU020CPN26C075-1
		36mm 3/8 Conventional Cutting Premium	75cm				PLU030CPN36C075-1	PLU020CPN36C075-1
		16mm 3/8 Conventional Cutting	75cm		PLV050CCN16C075-1	PLV040CCN16C075-1	PLV030CCN16C075-1	
		22mm 1/2 Conventional Cutting	45cm 45cm			PLV040CCN2B045-1	PLV030CCN2B045-15 PLU030CCN2B045-15	
		26mm 5/8 Conventional Cutting	75cm				PLU030CCN26D075-1	
		13mm Straight Cutting	45cm			PLV040RCN13E045-1		
		45mm Straight Cutting	45cm			PLU040RCN45E045-1		
		55mm Straight Cutting	75cm					PLU020RCN55E075-1
		60mm Straight Cutting	75cm 75cm				PLU030RCN60E075-1	PLV020RCN60E075-1 PLU020RCN60E075-1
		60mm Straight Cutting premium	75cm 75cm				PLV030RPN60E075-1 PLU030RPN60E075-1	

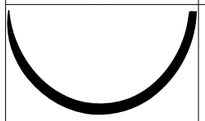
Radik ™ Absorbable Polyglactin 910

Needle	Point Shape	Needle Description	Length	USP SIZE				
				8-0	7-0	6-0	5-0	4-0
		17mm 5/8 Tapercut	75cm					PLU040TCN17D075-1
		6.4mm 3/8 Spatula	15cm	PLV080SPN6.4C015-1				
		6.4mm 3/8 Spatula Double	30cm 45cm	PLV080SPN6.4C030-2 PLV080SPN6.4C045-2	PLV070SPN6.4C030-2			
		6.4mm 3/8 Spatula	10cm	PLV080SPN6.4C010-1				
		7mm 1/2 Spatula Double	30cm 45cm	PLV080SPN07B030-2	PLV070SPN07B045-2			
		11mm 3/8 Reverse Cutting Double	45cm			PLV060RCN11C045-2		
		8mm 3/8 Reverse Cutting Double	30cm	PLV080RCN08C030-2				
		8mm 1/4 Spatula Double	20cm 45cm 45cm			PLV060SPN08A020-2 PLV060SPN08A045-2 PLV060SPN08A045-2	PLV050SPN08A045-2 PLU050SPN08A045-2	
		8mm 1/4 Spatula Double	45cm					PLV040SPN08A045-2
		11mm 3/8 Spatula Double	45cm			PLU060SPN11C045-2	PLU050SPN11C045-2	PLU040SPN11C045-2
		8mm 1/2 Spatula Double	20cm 45cm 45cm			PLV060SPN08B020-2 PLV060SPN08B045-2 PLU060SPN08B045-2	PLV050SPN08B045-2	
		10mm 5/8 Tapercut	30cm			PLV060TCN10D030-1		
		13mm 3/8 Reverse Cutting Double	45cm				PLV050RCN13C045-2	PLV040RCN13C045-2
		9.3mm 3/8 Taper	15cm 30cm	PYV020BPN31B075-1		PLV060TPN9.3C030-1		
		19mm Straight visi-black	20cm					PLV040TPB19E020-1

Radik Precut ™ Absorbable Polyglactin 910

RADIK	5-0	Braided	Violet	150cm*1	precut	PLV05015001
RADIK	4-0	Braided	Violet	150cm*1	precut	PLV04015001
RADIK	3-0	Braided	Violet	150cm*1	precut	PLV03015001
RADIK	2-0	Braided	Violet	150cm*1	precut	PLV02015001
RADIK	0	Braided	Violet	150cm*1	precut	PLV00015001
RADIK	1	Braided	Violet	150cm*1	precut	PLV00115001
RADIK	2	Braided	Violet	150cm*1	precut	PLV00215001
RADIK	4-0	Braided	Violet	45cm*6	precut	PLV04004506
RADIK	3-0	Braided	Violet	45cm*6	precut	PLV03004506
RADIK	2-0	Braided	Violet	45cm*6	precut	PLV02004506
RADIK	0	Braided	Violet	45cm*6	precut	PLV00004506
RADIK	1	Braided	Violet	45cm*6	precut	PLV00104506
RADIK	3-0	Braided	Violet	250cm	reel	PLV03025001R
RADIK	2-0	Braided	Violet	250cm	reel	PLV02025001R
RADIK	0	Braided	Violet	250cm	reel	PLV00025001R
RADIK	1	Braided	Violet	250cm	reel	PLV00125001R

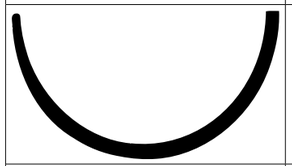
Radik Fast ™ Absorbable Polyglactin 910 fast

Needle	Point Shape	Needle Description	Length	USP SIZE				
				5-0	4-0	3-0	2-0	0
	⊙	17mm 1/2 Taper Point	75cm	PFU050TPN17B075-1	PFU040TPN17B075-1			
	⊙	22mm 1/2 Taper Point	75cm		PFU040TPN22B075-1	PFU030TPN22B075-1		
	⊙	31mm 1/2 Taper Point	75cm				PFU020TPN31B075-1	
	⊙	40mm 1/2 Taper Point Heavy	90cm					PFU000TPH40B090-1
	⊙	48mm 1/2 Taper Point Heavy	90cm				PFU020TPH48B090-1	
	✇	26mm 1/2 Taper-cut	90cm				PFU020TCN26B090-1	
	✇	36mm 1/2 Taper-cut	90cm 120cm				PFU020TCN36B090-1 PFU020TCN36B120-1	PFU000TCN36B090-1
	✇	40mm 1/2 Taper-cut	90cm				PFU020TCN40B090-1	
	✇	45mm 1/2 Taper-cut	90cm				PFU020TCN45B090-1	
	▽	26mm 1/2 Reverse Cutting	75cm				PFU020RCN26B075-1	
	▽	11mm 3/8 Reverse Cutting	45cm	PFU050RCN11C045-1				
	▽	13mm 3/8 Premium Reverse Cutting	45cm	PFU050RPN13C045-1	PFU040RPN13C045-1			
	▽	19mm 3/8 Premium Reverse Cutting	75cm		PFU040RPN19C075-1	PFU030RPN19C075-1		
	▽	26mm 3/8 Premium Reverse Cutting	75cm			PFU030RPN26C075-1	PFU020RPN26C075-1	

Radik Fast ™ — Absorbable — Polyglactin 910 fast

Needle	Point Shape	Needle Description	Length	USP SIZE				
				8-0	7-0	4-0	3-0	2-0
		36mm 3/8 Premium Reverse Cutting	75cm				PFU030RPN36C075-1	PFU020RPN36C075-1
		13mm 3/8 Reverse Cutting	75cm			PFU040RCN13C075-1		
		19mm 3/8 Reverse Cutting	75cm			PFU040RCN19C075-1	PFU030RCN13C075-1	PFU020RCN19C075-1
		26mm 3/8 Reverse Cutting	75cm				PFU030RCN26C075-1	PFU020RCN26C075-1
		16mm 3/8 Premium Cutting	75cm			PFU040CPN16C075-1	PFU030CPN16C075-1	
		16mm 3/8 Conventional Cutting	75cm			PFU040CCN16C075-1	PFU030CCN16C075-1	
		22mm 1/2 Premium Cutting	45cm				PFU030CPN22B045-1	
		22mm 1/2 Conventional Cutting	45cm			PFU040CCN22B045-1	PFU030CCN22B045-1	
		26mm 5/8 Conventional Cutting	75cm				PFU030CCN26D075-1	
		13mm Straight Cutting	45cm			PFU040RCN13E045-1		
		45mm Straight Cutting	45cm			PFU040RCN45E045-1		
		60mm Straight Cutting	75cm				PFU030RCN60E075-1	PFU020RCN60E075-1
		17mm 5/8 Taper-cut	75cm			PFU040TCN17D075-1		
		6.5mm 3/8 Spatula	30cm	PFV080SPN6.4C030-1				
		6.5mm 3/8 Spatula Double	30cm 45cm	PFV080SPN6.4C030-2	PFV070SPN6.4C045-2			
		6.5mm 3/8 Spatula Double	30cm		PFV070SPN6.4C030-2			
		9.3mm 3/8 Taper Point	30cm	PFV080TPN9.3C030-1				

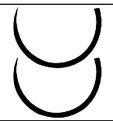
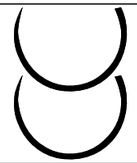
Simfra ™ — Absorbable — Poliglecaprone 25

Needle	Point Shape	Needle Description	Length	USP SIZE			
				4-0	2-0	0	#1
		31 mm 1/2 Blunt Point	70 cm		PGV020BPN31B070-1		
		40 mm 1/2 Blunt Point	90 cm			PGV000BPN40B090-1	PGV001BPN40B090-1
		45 mm 1/2 Blunt Point	90 cm				PGV001BPN45B090-1
		48 mm 1/2 Blunt Point	90 cm				PGV001BPN48B090-1
		70 mm 1/2 Blunt Point	90 cm				PGV001BPN70B090-1
		65 mm 3/8 Blunt Point	90 cm				PGV001BPN65C090-1
		17 mm 3/8 Taper	70 cm	PGV040TPN17C070-1			
		31 mm 3/8 Taper	70 cm		PGV020TPN31C070-1		

Simfra ™ Absorbable Poliglecaprone 25

Needle	Point Shape	Needle Description	Length	USP SIZE				
				4-0	3-0	2-0	0	#1
	⊙	13 mm 1/2 Taper	45 cm	USP 6-0 PGV060TPN13B045-1	USP 5-0 PGV050TPN13B045-1			
	⊙	17 mm 1/2 Taper	70 cm	PGV040TPN17B070-1	PGV030TPN17B070-1			
	⊙	22 mm 1/2 Taper	70 cm	PGV040TPN22B070-1	PGV030TPN22B070-1	PGV020TPN22B070-1		
	⊙	26 mm 1/2 Taper	70 cm		PGV030TPN26B070-1	PGV020TPN26B070-1		
	⊙	26 mm 1/2 Taper	8×70 cm		PGV030TPN26B070-1*8			
	⊙	26 mm 1/2 Taper	8×45 cm		PGV030TPN26B045-1*8			
	⊙	26 mm 1/2 Taper	70 cm		PGV030TPN26B070-1			
	⊙	26 mm 1/2 Taper Double	70 cm		PGV030TPN26B070-2	PGV020TPN26B070-2		
	⊙	31 mm 1/2 Taper	70 cm		PGV030TPN31B070-1	PGV020TPN31B070-1	PGV000TPN31B070-1	PGV001TPN31B070-1
	⊙	31 mm 1/2 Taper	70 cm			PGU020TPN31B070-1		
	⊙	36 mm 1/2 Taper	70 cm			PGV020TPN36B070-1	PGV000TPN36B070-1	PGV001TPN36B070-1
	⊙	26 mm 1/2 Taper Heavy	90 cm			PGV020TPH26B090-1	PGV000TPH26B090-1	PGV001TPH26B090-1
	⊙	36 mm 1/2 Taper Heavy	90 cm			PGV020TPH36B090-1	PGV000TPH36B090-1	PGV001TPH36B090-1
	⊙	40 mm 1/2 Taper Heavy	70 cm				PGV000TPH40B070-1	PGV001TPH40B070-1
	⊙	45 mm 1/2 Taper Heavy	90 cm					PGV001TPH45B090-1
	⊙	48 mm 1/2 Taper Heavy	70 cm			PGV020TPH48B070-1		

Simfra ™ Absorbable Poliglecaprone 25

Needle	Point Shape	Needle Description	Length	USP SIZE				
				4-0	3-0	2-0	0	#1
	⊙	26 mm 5/8 Taper	70 cm		PGV030TPH26D070-1	PGV020TPH26D070-1		
	⊙	26 mm 5/8 Taper Double	70 cm		PGV030TPN26D070-2			
	⊙	36 mm 5/8 Taper	70 cm			PGV020TPN36D070-1	PGV000TPN36D070-1	
	⊙	36 mm 5/8 Taper Double	70 cm			PGV020TPN36D070-2		
	☮	26 mm 1/2 Taper-cut	70 cm			PGV020TCN26B070-1		
	☮	26 mm 1/2 Taper-cut	70 cm		PGU030TCN26B070-1	PGU020TCN26B070-1		
	☮	36 mm 1/2 Taper-cut	70 cm			PGV020TCN36B070-1	PGV000TCN36B070-1	PGV001TCN36B070-1
	▽	36 mm 1/2 Reverse Cutting	70 cm			PGV020RCN36B070-1	PGV000RCN36B070-1	
	▽	40 mm 1/2 Reverse Cutting	90 cm					PGV001RCN40B090-1
	▽	11 mm 3/8 Premium Cutting	45 cm	USP 6-0 PGU060CPN11C045-1				
	▽	13 mm 3/8 Premium Cutting	45 cm	USP 6-0 PGU060CPN13C045-1	USP 5-0 PGU050CPN13C045-1			
	▽	24 mm 3/8 Premium Cutting	70 cm		PGU030CPN24C070-1			
	▽	13 mm 3/8 Premium Cutting	45 cm	USP 5-0 PGU050CPN13C045-1				
	▽	16 mm 3/8 Premium Cutting	45 cm	PGU040CPN16C045-1				

Simfra™ Absorbable Poliglecaprone 25

Needle	Point Shape	Needle Description	Length	USP SIZE			
				5-0	4-0	3-0	2-0
		19 mm 3/8 Premium Cutting	45 cm		PGU040CPN19C045-1	PGU030CPN19C045-1	
		26 mm 3/8 Premium Cutting	70 cm		PGU040CPN26C070-1	PGU030CPN26C070-1	
		16 mm 3/8 Reverse Cutting	45 cm	PGU050RCN16C045-1			
		19 mm 3/8 Reverse Cutting	45 cm		PGU040RCN19C045-1		
		19 mm 3/8 Reverse Cutting	70 cm	PGU050RCN19C070-1		PGU030RCN19C070-1	
		26 mm 3/8 Reverse Cutting	70 cm			PGU030RCN26C070-1	PGU020RCN26C070-1
		60 mm Straight Cutting	70 cm		PGU040RCN60E070-1	PGU030RCN60E070-1	PGU020RCN60E070-1
		8 mm 1/4 Spatula Double	45 cm		PGU040SPN08A045-2		

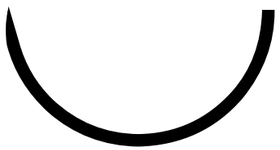
Simfra Precut™ Absorbable Poliglecaprone 25

SIMFRA	3-0	Mono	Violet	150 cm	precut	PGV03015001
SIMFRA	2-0	Mono	Violet	150 cm	precut	PGV02015001
SIMFRA	0	Mono	Violet	150 cm	precut	PGV00015001
SIMFRA	1	Mono	Violet	150 cm	precut	PGV00115001
SIMFRA	3-0	Mono	Violet	250 cm	reel	PGV03025001R
SIMFRA	2-0	Mono	Violet	250 cm	reel	PGV02025001R
SIMFRA	1	Mono	Violet	250 cm	reel	PGV00125001R

Kollgut Plain™ Absorbable Plain Catgut

Needle	Point Shape	Needle Description	Length	USP SIZE				
				5-0	4-0	3-0	2-0	0
		12mm 3/8 Reverse Cutting	45cm	GP050RCN12C045-1	GP040RCN12C045-1			
		13mm 1/2 Taper	75cm	GP050TPN13B075-1				
		16mm 1/2 Taper	75cm	GP050TPN16B075-1				
		16mm 1/2 Reverse Cutting	75cm		GP040RCN16B075-1	GP030RCN16B075-1		
		16mm 3/8 Reverse Cutting	75cm	GP050RCN16C075-1	GP040RCN16C075-1	GP030RCN16C075-1		
		19mm 1/2 Taper	75cm		GP040TPN19B075-1	GP030TPN19B075-1		
		24mm 1/2 Taper	75cm		GP040TPN24B075-1			
		24mm 1/2 Reverse Cutting	75cm			GP030RCN24B075-1	GP020RCN24B075-1	GP000RCN24B075-1
		24mm 3/8 Reverse Cutting	75cm		GP040RCN24C075-1	GP030RCN24C075-1	GP020RCN24C075-1	GP000RCN24C075-1
		26mm 1/2 Taper	75cm 90cm		GP040TPN26B075-1 GP040TPN26B090-1	GP030TPN26B075-1 GP030TPN26B090-1	GP020TPN26B075-1 GP020TPN26B090-1	GP000TPN26B075-1 GP000TPN26B090-1
		26mm 1/2 Reverse Cutting	75cm			GP030RCN26B075-1	GP020RCN26B075-1	
		30mm 1/2 Taper	75cm	USP 0 GP000TPN30B075-1	USP 1 GP001TPN30B075-1			
		30mm 1/2 Reverse Cutting	75cm			GP030RCN30B075-1	GP020RCN30B075-1	GP000RCN30B075-1

Kollgut Plain ™ Absorbable Plain Catgut

Needle	Point Shape	Needle Description	Length	USP SIZE			
				2-0	0	#1	#2
	⊙	38mm 1/2 Taper	90cm		GP000TPN38B090-1		
	⊙	38mm 1/2 Taper Heavy	75cm	GP020TPH38B075-1	GP000TPH38B075-1		
	▽	38mm 1/2 Reverse Cutting	75cm			GP001RCN38B075-1	
	⊙	40mm 1/2 Taper	75cm	GP020TPN40B075-1	GP000TPN40B075-1	GP001TPN40B075-1	GP002TPN40B075-1
	▽	40mm 1/2 Reverse Cutting	75cm	GP020RCN40B075-1	GP000RCN40B075-1	GP001RCN40B075-1	GP002RCN40B075-1
	⊙	50mm 1/2 Taper	75cm		GP000TPN50B075-1	GP001TPN50B075-1	
	⊙	50mm 1/2 Taper Heavy	75cm	GP020TPH50B075-1			
	⊙	64mm 1/2 Taper Heavy	75cm	GP020TPH64B075-1			

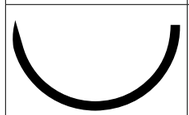
Kollgut Plain Precut ™ Absorbable Plain Catgut

KOLLGUT PLAIN	1-0	Braided	Yellow	75*1	GP00007501
KOLLGUT PLAIN	1-0	Braided	Yellow	150*1	GP00015001
KOLLGUT PLAIN	2-0	Braided	Yellow	75*1	GP02007501
KOLLGUT PLAIN	2-0	Braided	Yellow	150*1	GP02015001
KOLLGUT PLAIN	3-0	Braided	Yellow	75*1	GP03007501
KOLLGUT PLAIN	3-0	Braided	Yellow	150*1	GP03015001
KOLLGUT PLAIN	4-0	Braided	Yellow	75*1	GP04007501
KOLLGUT PLAIN	4-0	Braided	Yellow	150*1	GP04015001
KOLLGUT PLAIN	5-0	Braided	Yellow	75*1	GP05007501
KOLLGUT PLAIN	5-0	Braided	Yellow	150*1	GP05015001
KOLLGUT PLAIN	6-0	Braided	Yellow	75*1	GP06007501
KOLLGUT PLAIN	1#	Braided	Yellow	75*1	GP00107501
KOLLGUT PLAIN	1#	Braided	Yellow	150*1	GP00115001
KOLLGUT PLAIN	2#	Braided	Yellow	75*1	GP00207501
KOLLGUT PLAIN	2#	Braided	Yellow	150*1	GP00215001
KOLLGUT PLAIN	3#	Braided	Yellow	75*1	GP00307501
KOLLGUT PLAIN	3#	Braided	Yellow	150*1	GP00315001

Kollgut Chrom ™ Absorbable Chromic Catgut

Needle	Point Shape	Needle Description	Length	USP SIZE				
				4-0	3-0	2-0	0	#1
	⊙	12mm 3/8 Taper	75cm	GC040TPN12C075-1				
	▽	12mm 3/8 Reverse Cutting	45cm	GC040RCN12C045-1				
	⊙	13mm 1/2 Taper	75cm	GC040TPN13B075-1				
	⊙	16mm 1/2 Taper	75cm	GC040TPN16B075-1	USP 5-0 GC050TPN16B075-1			
	▽	16mm 3/8 Reverse Cutting	75cm	GC040RCN16C075-1				
	⊙	19mm 1/2 Taper	75cm	GC040TPN19B075-1	GC030TPN19B075-1	GC020TPN19B075-1		
	▽	19mm 3/8 Reverse Cutting	75cm	GC040RCN19C075-1	GC030RCN19C075-1			
	⊙	22mm 1/2 Taper	75cm	GC040TPN22B075-1	GC030TPN22B075-1	GC020TPN22B075-1	GC000TPN22B075-1	
	⊙	22mm 3/8 Taper	75cm		GC030TPN22C075-1	GC020TPN22C075-1		
	▽	24mm 3/8 Reverse Cutting	75cm	GC040RCN24C075-1	GC030RCN24C075-1	GC020RCN24C075-1	GC000RCN24C075-1	
	⊙	26mm 1/2 Taper	75cm 90cm	GC040TPN26B075-1 GC040TPN26B090-1	GC030TPN26B075-1 GC030TPN26B090-1	GC020TPN26B075-1 GC020TPN26B090-1	GC000TPN26B075-1 GC000TPN26B090-1	GC001TPN26B075-1 GC001TPN26B090-1
	✇	26mm 1/2 Taper-cut	75cm			GC020TCN26B075-1		
	⊙	30mm 1/2 Taper	75cm 90cm		GC030TPN30B075-1 GC030TPN30B090-1	GC020TPN30B075-1 GC020TPN30B090-1	GC000TPN30B075-1 GC000TPN30B090-1	GC001TPN30B075-1 GC001TPN30B090-1
	⊙	30mm 3/8 Taper	75cm		GC030TPN30C075-1		GC000TPN30C075-1	GC001TPN30C075-1 -1
	▽	36mm 1/2 Reverse Cutting	75cm			USP 2 GC002RCN36B075-1	GC000RCN36B075-1	GC001RCN36B075-1
	⊙	37mm 1/2 Taper	75cm		GC030TPN37B075-1	GC020TPN37B075-1	GC000TPN37B075-1	GC001TPN37B075-1

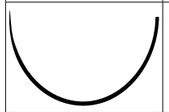
Kollgut Chrom ™ Absorbable Chromic Catgut

Needle	Point Shape	Needle Description	Length	USP SIZE				
				3-0	2-0	0	#1	#2
	⊙	37mm 1/2 Taper Heavy	75cm 90cm			GC000TPH37B075-1 GC000TPH37B090-1	GC001TPH37B075-1 GC001TPH37B090-1	GC002TPH37B075-1 GC002TPH37B090-1
	✇	37mm 1/2 Taper-cut	75cm		GC020TCN37B075-1	GC000TCN37B075-1	GC001TCN37B075-1	GC002TCN37B075-1
	✇	37mm 1/2 Taper-cut Heavy	75cm		GC020TCH37B075-1	GC000TCH37B075-1	GC001TCH37B075-1	GC002TCH37B075-1
	⊙	40mm 1/2 Taper Heavy	75cm			GC000TPH40B075-1	GC001TPH40B075-1	GC002TPH40B075-1
	▽	40mm 1/2 Reverse Cutting	75cm		GC020RCN40B075-1	GC000RCN40B075-1	GC001RCN40B075-1	
	⊙	45mm 1/2 Taper	75cm		GC020TPN45B075-1	GC000TPN45B075-1	GC001TPN45B075-1	GC002TPN45B075-1
	▽	45mm 1/2 Reverse Cutting	75cm			GC000RCN45B075-1	GC001RCN45B075-1	
	✇	45mm 1/2 Taper-cut Heavy	75cm		GC020TCH45B075-1	GC000TCH45B075-1	GC001TCH45B075-1	GC002TCH45B075-1
	⊙	50mm 1/2 Taper	75cm		GC020TPN50B075-1	GC000TPN50B075-1	GC001TPN50B075-1	GC002TPN50B075-1
	▽	50mm 1/2 Reverse Cutting	75cm			GC000RCN50B075-1	GC001RCN50B075-1	

Kollgut Chrom Precut ™ Absorbable Chromic Catgut

KOLLGUT CHROM	1-0	Braided	Brown	75*1	GC00007501
KOLLGUT CHROM	1-0	Braided	Brown	150*1	GC00015001
KOLLGUT CHROM	2-0	Braided	Brown	75*1	GC02007501
KOLLGUT CHROM	2-0	Braided	Brown	150*1	GC02015001
KOLLGUT CHROM	3-0	Braided	Brown	75*1	GC03007501
KOLLGUT CHROM	3-0	Braided	Brown	150*1	GC03015001
KOLLGUT CHROM	4-0	Braided	Brown	75*1	GC04007501
KOLLGUT CHROM	4-0	Braided	Brown	150*1	GC04015001
KOLLGUT CHROM	5-0	Braided	Brown	75*1	GC05007501
KOLLGUT CHROM	5-0	Braided	Brown	150*1	GC05015001
KOLLGUT CHROM	6-0	Braided	Brown	75*1	GC06007501
KOLLGUT CHROM	1#	Braided	Brown	75*1	GC00107501
KOLLGUT CHROM	1#	Braided	Brown	150*1	GC00115001
KOLLGUT CHROM	2#	Braided	Brown	75*1	GC00207501
KOLLGUT CHROM	2#	Braided	Brown	150*1	GC00215001
KOLLGUT CHROM	3#	Braided	Brown	75*1	GC00307501
KOLLGUT CHROM	3#	Braided	Brown	150*1	GC00315001

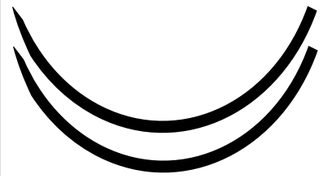
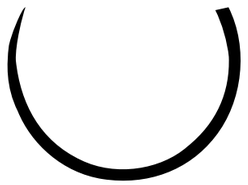
Silda ™ Non absorbable Silk

Needle	Point Shape	Needle Description	Length	USP SIZE				
				5-0	4-0	3-0	2-0	0
	⊙	9.3mm 3/8 Taper	45cm	USP 6-0 SBB060TPN09C045-1				
	⊙	11mm 3/8 Taper	75cm	SBB050TPN11C075				
	⊙	17mm 3/8 Taper	75cm	SBB050TPN17C075-1	SBB040TPN17C075-1			
	⊙	20mm 3/8 Taper	75cm			SBB030TPN17C075-1		
	⊙	17mm 1/2 Taper	75cm		SBB040TPN17B075-1	SBB030TPN17B075-1		
	⊙	20mm 1/2 Taper	75cm		SBB040TPN20B075-1	SBB030TPN20B075-1		
	⊙	26mm 1/2 Taper	6*35cm				SBB020TPN26B035-1*6	
	⊙	26mm 1/2 Taper	8*45cm			SBB030TPN26B045-1*8	SBB020TPN26B045-1*8	
	⊙	26mm 1/2 Taper	75cm			SBB030TPN26B075-1	SBB020TPN26B075-1	
	⊙	26mm 1/2 Taper	8*75cm			SBB030TPN26B075-1*8	SBB020TPN26B075-1*8	
	⊙	31mm 1/2 Taper	75cm			SBB030TPN31B075-1	SBB020TPN31B075-1	SBB000TPN31B075-1
	⊙	36mm 1/2 Taper	75cm			SBB030TPN36B075-1		
	⊙	40mm 1/2 Taper	75cm				SBB020TPN40B075-1	
	⊙	31mm 1/2 Taper Heavy	75cm	USP 1 SBB001TPH31B075-1				
	⊙	40mm 1/2 Taper Heavy	75cm	USP 2 SBB002TPH42B075-1				
	⚠	48mm 1/2 Conventional Cutting	75cm					SBB000CCN48B075-1

Silda™ Non absorbable Silk

Needle	Point Shape	Needle Description	Length	USP SIZE				
				5-0	4-0	3-0	2-0	0
		19mm 3/8 Reverse Cutting Premium	45cm	SBB050RPN19C045-1	SBB040RPN19C045-1	SBB030RPN19C045-1		
		26mm 3/8 Reverse Cutting Premium	45cm		SBB040RPN26C045-1	SBB030RPN26C045-1	SBB020RPN26C045-1	
		36mm 3/8 Reverse Cutting Premium	75cm			SBB030RPN36C075-1	SBB020RPN36C075-1	
		12mm 3/8 Reverse Cutting	75cm	SBB050RCN12C075-1				
		13mm 3/8 Reverse Cutting	45cm		SBB040RCN13C045-1			
		13mm 3/8 Reverse Cutting Double	45cm		SBB040RCN13C045-2			
		19mm 3/8 Reverse Cutting	45cm		SBB040RCN19C045-1			
		26mm 3/8 Reverse Cutting	45cm			SBB030RCN26C045-1	SBB020RCN26C045-1	
		36mm 3/8 Reverse Cutting	75cm			SBB030RCN36C075-1	SBB020RCN36C075-1	
		45mm 3/8 Reverse Cutting	75cm					SBB000RCN45C075-1
		16mm 3/8 Conventional Cutting Premium	45cm	SBB050RPN16C045-1	SBB040RPN16C045-1	SBB030RPN16C045-1		
		11mm 3/8 Conventional Cutting	45cm	SBB050CCN11C045-1				
		13mm 3/8 Conventional Cutting	75cm	SBB050CCN13C075-1				
		16mm 3/8 Conventional Cutting Double	38cm	SBB050CCN16C038-2	SBB040CCN16C038-2	SBB030CCN16C038-2		
		16mm 3/8 Conventional Cutting	75cm 75cm*2	SBB050CCN16C075*2-1	SBB040CCN16C075-1 SBB040CCN16C075*2-1	SBB030CCN16C075-1 SBB030CCN16C075*2	SBB020CCN16C075*2-1	
		16mm 3/8 Conventional Cutting	45cm	SBB060CCN16C045-1	SBB040CCN16C045-1			
		26mm 3/8 Conventional Cutting	45cm	SBB050CCN26C045-1	SSB040CCN26C045-1	SBB030CCN26C045-1		
		40mm 3/8 Conventional Cutting	100cm				SBB020CCN40C100-1	

Silda™ Non absorbable Silk

Needle	Point Shape	Needle Description	Length	USP SIZE			
				3-0	2-0	0	#1
		80mm 3/8 Conventional Cutting	75cm			SBB000CCN80C075-1	SBB001CCN80C075-1
		90mm 3/8 Conventional Cutting	100cm				SBB001CCN90C100-1
		22mm 1/2 Conventional Cutting Premium	45cm	SBB030RPN22B045-1			
		16mm 1/2 Conventional Cutting	45cm	USP 4-0 SBB040CCN16B045-1			
		17mm 1/2 Conventional Cutting	75cm	USP 5-0 SBB050CCN17B075-1			
		22mm 1/2 Conventional Cutting	45cm	SBB030CCN22B045-1	SBB020CCN22B045-1		
		26mm 5/8 Conventional Cutting	75cm	SBB030CCN26D075-1			
		75mm 5/8 Conventional Cutting	75cm		SBB020CCN75D075-1		
		55mm Straight Cutting	100cm		SBB020RCN55E100-1		
		60mm Straight Cutting	75cm		SBB020RCN60E075-1	SBB000RCN60E075-1	
		75mm Straight Cutting	100cm	SBB030RCN75E100-1	SBB020RCN75E100-1	SSB000RCN75E100-1	

Silda™ Non absorbable Silk

Needle	Point Shape	Needle Description	Length	USP SIZE				
				10-0	9-0	8-0	7-0	6-0
		6.5mm 3/8 Spatula	30cm			SBB080SPN06C030-1	SBB070SPN06C030-1	
		6.5mm 3/8 Spatula Double	30cm	SBB100SPN06C030-2	SBB090SPN06C030-2	SBB080SPN06C030-2		
		6.5mm 3/8 Spatula Double	45cm		SBB090SPN06C045-2	SBB080SPN06C045-2		
		7mm 1/2 Spatula Double	30cm			SBB080SPN07B030-2		
		8mm 1/4 Spatula Double	45cm					SBB060SPN08A045-2
		8mm 3/8 Reverse Cutting Double	45cm				SBB070RCN08C045-2	
		11mm 3/8 Reverse Cutting	45cm					SBB060RCN11C045-1
		11mm 3/8 Reverse Cutting Double	45cm					SBB060RCN11C045-2
		8mm 1/2 Reverse Cutting	45cm			SBB080RCN08B045-1		
		8mm 1/2 Reverse Cutting Double	45cm			SBB080RCN08B045-2		
		16mm 3/8 Conventional Cutting	4*45cm	USP 4-0 SBB040CCN16C045-1*4	USP 2-0 SBB020CCN16C045-1*4			
		22mm J Taper	20cm	USP 2-0 SBB020TPN22F020-1				

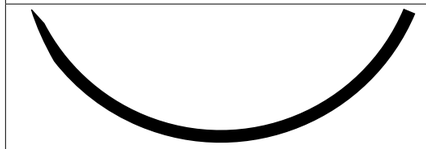
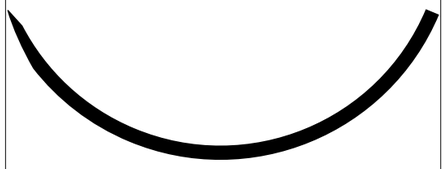
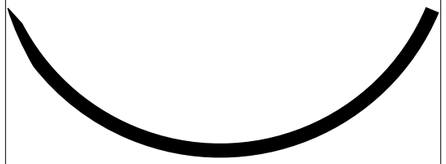
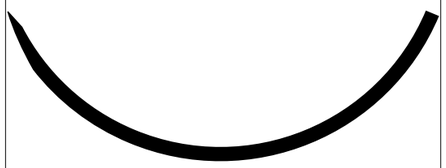
Molylon™ Non absorbable Nylon

Needle	Point Shape	Needle Description	Length	USP SIZE			
				3-0	2-0	0	#1
		40mm 1/2 blunt point	150cm Loop			NMB000BPN40B150-1L	
		48mm 1/2 blunt point	150cm Loop				NMB001BPN48B150-1L
		31mm 1/2 Taper Point	100cm		NMB020TPN31B100-1		NMB001TPN31B100-1
		31mm 1/2 Taper Point	150cm Loop		NMB000TPN31B150-1L		
		36mm 1/2 Taper Point heavy	150cm Loop				NMB001TPH36B150-1L
		40mm 1/2 Taper Point heavy	100cm			NMB000TPN42B100-1	NMB001TPH40B100-1
		40mm 1/2 Taper Point heavy	150cm Loop			NMB000TPH40B100-1L	
		48mm 1/2 Taper Point heavy	100cm				NMB001TPH48B100-1
		48mm 1/2 Taper Point heavy	150cm Loop			NMB000TPH48B150-1	NMB001TPH48B150-1
		48mm 1/2 Taper Point heavy	200cm Loop				NMB001TPH48B200-1
		45mm 1/2 Tapercut	200cm Loop				NMB001TCH45B200-1
		40mm 1/2 Reverse Cutting	100cm			NMB000RCN40B100-1	
		48mm 1/2 Reverse Cutting	100cm				NMB001RCN48B100-1

Molylon™ Non absorbable Nylon

Needle	Point Shape	Needle Description	Length	USP SIZE			
				6-0	5-0	4-0	3-0
		16mm 3/8 Reverse Cutting Prime	45cm			NMB040RPN16C045-1	
		19mm 3/8 Reverse Cutting Prime	45cm			NMB040RPN19C045-1	
		24mm 3/8 Reverse Cutting Prime	45cm				NMB030RPN24C045-1
		8mm 3/8 Reverse Cutting Prime	45cm	NMB060RPN08C045-1	NMB050RPN08C045-1		
		13mm 3/8 Reverse Cutting Prime	45cm			NMB040RPN13C045-1	
		16mm 3/8 Reverse Cutting Prime	45cm	NMB060RPN16C045-1			
		19mm 3/8 Reverse Cutting Prime	45cm 75cm		NMB050RPN19C045-1	NMB040RPN19C045-1 NMB040RPN19C075-1	NMB030RPN19C045-1
		26mm 3/8 Reverse Cutting Prime	45cm 75cm				NMB030RPN26C045-1 NMB030RPN26C075-1
		36mm 3/8 Reverse Cutting Prime	75cm				NMB030RPN36C075-1
		19mm 3/8 Reverse Cutting	45cm			NMB040RCN19C045-1	
		26mm 3/8 Reverse Cutting	45cm				NMB030RCN26C045-1
		45mm 3/8 Reverse Cutting	100cm	USP 2-0 NMB020RCN45C100-1			
		16mm 3/8 Cutting Prime	45cm	NMB060CPN16C045-1	NMB050CPN16C045-1		
		19mm 3/8 Cutting Prime	45cm			NMB040CPN19C045-1	
		26mm 3/8 Cutting Prime	45cm	NMB060CPN26C045-1	NMB050CPN26C045-1		
		16mm 3/8 Cutting Prime	45cm	NMB060CPN16C045-1	NMB050CPN16C045-1		

Molylon™ Non absorbable Nylon

Needle	Point Shape	Needle Description	Length	USP SIZE		
				2-0	0	#1
		16mm 3/8 Cutting	35cm	USP 6-0 NMB060CCN16C035-1		
		40mm 3/8 Cutting	45cm	NMB020CCN40C045-1		
		60mm 3/8 Cutting	100cm	NMB020CCN60C100-1		
		90mm 3/8 Cutting	2x50cm			NMB001CCN90C050-1*2
		90mm 3/8 Cutting	75cm			NMB001CCN90C075-1
		90mm 3/8 Cutting	100cm	NMB020CCN90C100-1	NMB000CCN90C100-1	NMB001CCN90C100-1
		55mm Straight Cutting	100cm	NMB020RCN55E100-1		
		60mm Straight Cutting	75cm	USP 3-0 NMB030RCN60E075-1		
		65mm Straight Cutting	75cm	USP 5-0 NMB050RCN65E075-1		

Molylon™ Non absorbable Nylon

Needle	Point Shape	Needle Description	Length	USP SIZE		
				10-0	9-0	8-0
		6.4mm 3/8 Spatula	30cm	NMB100SPN06C030-1		
		6.4mm 3/8 Spatula double	30cm	NMB100SPN06C030-2		
		5.5mm 1/2 Spatula double	30cm	NMB100SPN05B030-2		
		6.4mm 3/8 Spatula double	30cm	NMB100SPN06C030-2	NMB090SPN06C030-2	
		5.5mm 1/2 Spatula double	30cm	NMB100SPN05B030-2		
		6.4mm 3/8 Spatula double	30cm	NMB100SPN06C030-2	NMB090SPN06C030-2	
		5.5mm 1/2 Spatula	15cm	NMB100SPN05B015-1		
		7mm 1/2 Spatula	30cm	NMB100SPN07B030-1		
		7mm 1/2 Spatula double	30cm	NMB100SPN07B030-2		
		5mm 3/8 Taper Point	13cm	NMB100TPN05C013-1		
		5mm 3/8 Taper Point	13cm	NMB100TPN05C013-1	NMB090TPN05C013-1	
		5mm 3/8 Taper Point VISI-BLACK	13cm		NMB090TPB05C013-1	
		5mm 3/8 Taper Point	13cm	NMB100TPN05C013-1	NMB090TPN05C013-1	NMB080TPN05C013-1
		6.5mm 3/8 Taper Point VISI-BLACK	13cm			NMB080TPB06C013-1
		6.4mm 3/8 Taper Point	13cm	NMB100TPN06C013-1		NMB080TPN06C013-1
		6.4mm 3/8 Taper Point	30cm	NMB100TPN06C030-2		

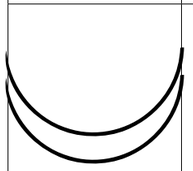
Molylon™ Non absorbable Nylon

Needle	Point Shape	Needle Description	Length	USP SIZE		
				10-0	9-0	8-0
		9.3mm 3/8 Taper Point	45cm			NMB080TPN09C045-1
		5mm 1/2 Taper Point	13cm	NMB100TPN05B013-1		
		8MM 1/2 Reverse Cutting	45cm			NMB080RCN08B045-1

Molylon Pre-cut™ Non absorbable Nylon

MOLYLON	#1	Mono	Black/Blue	2x 100cm	precut	NMB00110002
MOLYLON	#2	Mono	Black/Blue	2x 100cm	precut	NMB00210002

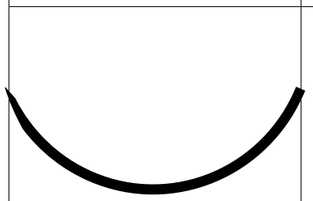
Restel ™ Non absorbable Polyester

Needle	Point Shape	Needle Description	Length	USP SIZE				
				6-0	5-0	4-0	3-0	2-0
	⊙	11 mm 3/8 Taper Double	75cm	PSG060TPN11C075-2				
	⊙	13 mm 3/8 Taper Double	75cm		PSG050TPN13C075-2	PSG040TPN13C075-2		
	⊙	17 mm 1/2 Taper Double	60cm		PSG050TPN17B060-2		PSG030TPN17B060-2	
	⊙	17 mm 1/2 Taper Double	10×75cm				PSG030TPN17B075-2*10	
	⊙	17 mm 1/2 Taper Double	90cm					PSG020TPN17B090-2
	⊙	20 mm 1/2 Taper Double	75cm			PSG040TPN20B075-2		PSG020TPN20B075-2
	⊙	20 mm 1/2 Taper Double	10×75cm					PSG020TPN20B075-2*10
	⊙	26 mm 1/2 Taper	75cm			PSG040TPN26B075-1	PSG030TPN26B075-1	
	⊙	26 mm 1/2 Taper Double	90cm					PSG020TPN26B090-2
	⊙	26 mm 1/2 Taper Double	100cm				PSG030TPN26B100-2	
	⊙	31 mm 1/2 Taper	75cm				PSG030TPN31B075-1	PSG020TPN31B075-1
	⊙	70 mm 1/2 Taper Double Heavy	75cm	USP 1 PSG001TPH70B075-2				
	✇	17 mm 3/8 Taper-cut Double	75cm				PSW3030TCN17C075-2	
	✇	17 mm 3/8 Taper-cut Double	90cm				PSG030TCN17C090-2	
	✇	17 mm 3/8 Taper-cut Double	10×90cm					PSG020TCN17C090-2*10
	✇	25 mm 3/8 Taper-cut Double	10×90cm					PSG020TCN25C090-2*10

Restel ™ Non absorbable Polyester

Needle	Point Shape	Needle Description	Length	USP SIZE				
				5-0	4-0	3-0	2-0	0
	✇	26 mm 3/8 Taper-cut Double	75 cm		PSW040TCN26C075-2			
	✇	26 mm 3/8 Taper-cut Double	90cm				PSG020TCN26C090-2	
	✇	17 mm 1/2 Taper-cut Double Pledget	10×75cm				PSG020TCN17B075-2P*10	
	✇	17 mm 1/2 Taper-cut Double Pledget	10×75cm				PSG020TCN17B075-2P*10	
	✇	17 mm 1/2 Taper-cut Double	10×75cm				PSG020TCN17B075-2*10	
	✇	17 mm 1/2 Taper-cut Double	90cm		PSW040TCN17B090-2		PSW020TCN17B090-2	
	✇	17 mm 1/2 Taper-cut Double	90cm	PSG050TCN17B090-2	PSG040TCN17B090-2		PSG020TCN17B090-2	
	✇	17 mm 1/2 Taper-cut Double Pledget	4×90cm				PSG020TCN17B090-2P*4	
	✇	17 mm 1/2 Taper-cut Double	4×90cm				PSG020TPN17B090*4-2	
	✇	26 mm 1/2 Taper-cut Double Pledget	10×75cm				PSG020TCN26B075-2P*10	
	✇	26 mm 1/2 Taper-cut Double	10×75cm				PSG020TCN26B075-2*10	
	✇	26 mm 1/2 Taper-cut Double Pledget	90cm				PSG020TCN26B090-2P	
	✇	26 mm 1/2 Taper-cut Double	90cm				PSW020TCN26B090-2	
	✇	26 mm 1/2 Taper-cut Double	90cm			PSG030TCN26B090-2	PSG020TCN26B090-2	PSG000TCN26B090-2
	✇	26 mm 1/2 Taper-cut Double Pledget	4×90cm				PSG020TCN26B090-2P*4	
	✇	26 mm 1/2 Taper-cut Double	4×90cm				PSG020TCN26B090-2*4	

Restel ™ Non absorbable Polyester

Needle	Point Shape	Needle Description	Length	USP SIZE			
				2-0	0	#1	#2
		36 mm 1/2 Taper-cut Double	90cm	PSG020TCN36B090-2			
		48 mm 1/2 Taper-cut	75cm		PSG000TCN48B090-1		
		40 mm 1/2 Taper-cut Heavy	75cm				PSG002TCH40B075-1
		45 mm 1/2 Taper-cut Heavy	4×75cm				PSG002TCNH075-1*4
		25 mm Straight Taper-cut	45cm	USP 4-0 PSW040TCN25E045-2			
		22 mm 1/2 Reverse Cutting	75cm		PSG000RCN22B075-1	PSG001RCN22B075-1	
		22 mm 1/2 Reverse Cutting	90cm				PSG002RCN22B090-2
		19 mm 3/8 Premium Cutting	45cm	USP 4-0 PSG040CPN19C045-1			
		90 mm 3/8 Cutting	2×50cm			PSG001CCN90C050-1*2	
		90 mm 3/8 Cutting	100cm			PSG001CCN90C100-1	

Restel ™ Non absorbable Polyester

Needle	Point Shape	Needle Description	Length	USP SIZE			
				5-0	4-0	3-0	2-0
		22 mm 1/2 Reverse Cutting	75cm				PSG020RCN22B075-1
		60 mm Straight Cutting	75cm				PSG020RCN60E075-1
		8 mm 1/4 Spatula Double	45 cm	PSW050SPN08A045-2	PSW040SPN08A045-2		
		8 mm 1/4 Spatula Double	45 cm	PSG050SPN08A045-2			
		8 mm 1/2 Spatula Double	45 cm	PSW050SPN08B045-2			
		8 mm 1/2 Spatula Double	45 cm	PSG050SPN08B045-2			
		10 mm 5/8 Taper-cut	23 cm	PSW050TCN10D023-1			
		22 mm Straight Point	107 cm				PSG000TPN22E107-1

Restel Precut ™ Non absorbable Polyester

RESTEL	1#	Braided	Green	180 cm	precut	PSG00118001
RESTEL	2#	Braided	Green	180 cm	precut	PSG00218001
RESTEL	3-0	Braided	Green	13×60cm	precut	PSG03006013
RESTEL	2-0	Braided	Green	13×60cm	precut	PSG02006013
RESTEL	0	Braided	Green	13×60cm	precut	PSG00006013

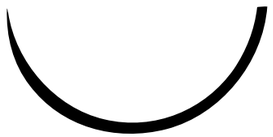
Pidilen™ Non absorbable Polypropylene

Needle	Point Shape	Needle Description	Length	USP SIZE			
				8-0	7-0	6-0	#1
	◎	40mm 1/2 Blunt Point	100cm				PPL001BPN40B100-1
	◎	45mm 1/2 Blunt Point	100cm				PPL001BPB45B100-1
	⊙	6.4mm 3/8 Taper Point	13cm	PPL080TPN06C013-1			
	⊙	6.4mm 3/8 Taper Point Double	45cm	PPL080TPN06C045-2			
	⊙	6.4mm 3/8 Taper Point Double	60cm	PPL080TPN06C060-2			
	⊙	8mm 3/8 Taper Point Double	60cm	PPL080TPN08C060-2	PPL070TPN08C060-2		
	⊙	8mm 3/8 Taper Point Double	60cm	PPL080TPN08C060-2	PPL070TPN08C060-2		
	⊙	8mm 3/8 Taper Point Double	60cm	PPL080TPN08C060-2	PPL070TPN08C060-2		
	⊙	8mm 3/8 Taper Point Double	60cm	PPL080TPN08C060-2	PPL070TPN08C060-2		
	⊙	9.3mm 3/8 Taper Point Double	60cm		PPL070TPN09C060-2		
	⊙	9.3mm 3/8 Taper Point Double	60cm		PPL070TPN09C060-2		
	⊙	9.3mm 3/8 Taper Point Double	4x60cm		PPL070TPN09C060-2*4		
	⊙	9.3mm 3/8 Taper Point Double	60cm			PPL060TPN09C060-2	
	⊙	9.3mm 3/8 Taper Point Double	45cm 60cm			PPL060TPN09C045-2 PPL060TPN09C060-2	
	⊙	9.3mm 3/8 Taper Point Double	4X60cm			PPL060TPN09C060-2*4	
	⊙	11mm 3/8 Taper Point Double	60cm			PPL060TPN11C060-2	

Pidilen™ Non absorbable Polypropylene

Needle	Point Shape	Needle Description	Length	USP SIZE				
				6-0	5-0	4-0	3-0	2-0
	⊙	13mm 3/8 Taper Point Double	60cm 75cm	PPL060TPN13C060-2 PPL060TPN13C075-2	PPL050TPN13C060-2			
	⊙	13mm 3/8 Taper Point Double	60cm 75cm	PPL060TPN13C060-2 PPL060TPN13C075-2				
	⊙	13mm 3/8 Taper Point	75cm		PPL050TPN13C075-1			
	⊙	13mm 1/2 Taper Point Double	75cm		PPL050TPN13B075-2			
	⊙	13mm 1/2 Taper Point Double	75cm		PPL050TPN13B075-2			
	⊙	17mm 1/2 Taper Point Double	90cm		PPL050TPN17B090-2	PPL040TPN17B090-2		
	⊙	17mm 1/2 Taper Point Double	90cm		PPL050TPN17B090-2	PPL040TPN17B090-2	PPL030TPN17B090-2	
	⊙	20mm 1/2 Taper Point Double	90cm			PPL040TPN20B090-2		
	⊙	22mm 1/2 Taper Point	75cm				PPL030TPN22B075-1	
	⊙	26mm 1/2 Taper Point Double	90cm			PPL040TPN26B090-2	PPL030TPN26B090-2	
	⊙	26mm 1/2 Taper Point Double	75cm 90cm 120cm		PPL050TPN26B075-2	PPL040TPN26B090-2	PPL030TPN26B090-2 PPL030TPN26B120-2	
	⊙	31mm 1/2 Taper Point Double	120cm				PPL030TPN31B120-2	
	⊙	31mm 1/2 Taper Point	75cm					PPL020TPN31B075-1
	⊙	31mm 1/2 Taper Point Double	90cm				PPL030TPN31B090-2	PPL020TPN31B090-2

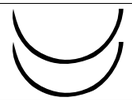
Pidilen™ Non absorbable Polypropylene

Needle	Point Shape	Needle Description	Length	USP SIZE			
				3-0	2-0	0	#1
	⊙	31mm 1/2 Taper Point Double	120cm	PPL030TPN31B120-2			
	⊙	31mm 1/2 Taper Point	75cm		PPL020TPN31B075-1		
	⊙	31mm 1/2 Taper Point Double	90cm	PPL030TPN31B090-2	PPL020TPN31B090-2		
	⊙	31mm 1/2 Taper Point Heavy	100cm			PPL000TPH31B100-1	
	⊙	40mm 1/2 Taper Point Heavy	100cm				PPL000TPH31B100-1
	⊙	40mm 1/2 Taper Point Heavy	100cm			PPL000TPH40B100-1	
	⊙	65mm 1/2 Taper Point Heavy	100cm				PPL001TPH65B100-1
	⊙	70mm Straight Taper Point	75cm		PPL020TPN65E075-1		

Pidilen™ Non absorbable Polypropylene

Needle	Point Shape	Needle Description	Length	USP SIZE				
				8-0	7-0	6-0	5-0	4-0
	✇	8mm 3/8 Taper-cut Double	60cm	PPL080TCN08C060-2				
	✇	9.3mm 3/8 Taper-cut Double	60cm 75cm	PPL080TCN09C060-2	PPL070TCN09C060-2	PPL060TCN09C060-2 PPL060TCN09C075-2		
	✇	9.3mm 3/8 Taper-cut Double	60cm				PPL050TCN09C060-2	
	✇	11mm 3/8 Taper-cut Double	60cm		PPL070TCN11C060-2	PPL060TCN11C060-2		
	✇	13mm 3/8 Taper-cut Double	60cm 75cm		PPL070TCN13C060-2	PPL060TCN13C060-2 PPL060TCN13C075-2		
	✇	13mm 3/8 Taper-cut Double	75cm				PPL050TCN13C075-2	
	✇	11mm 1/2 Taper-cut Double	60cm				PPL050TCN11B060-2	
	✇	13mm 1/2 Taper-cut Double	60cm 75cm			PPL060TCN13B060-2	PPL050TCN13B075-2	
	✇	13mm 1/2 Taper-cut Double	60cm 75cm				PPL050TCN13B060-2	PPL040TCN13B075-2
	✇	16mm 1/2 Taper-cut Double	90cm				PPL050TCN16B090-2	PPL040TCN16B090-2
	✇	16mm 1/2 Taper-cut Double	90cm	USP 3-0 PPL030TCN16B090-2				
	✇	20mm 1/2 Taper-cut Double	90cm					PPL040TCN20B090-2

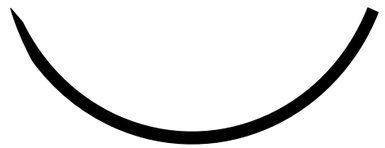
Pidilen™ Non absorbable Polypropylene

Needle	Point Shape	Needle Description	Length	USP SIZE				
				4-0	3-0	2-0	0	#1
	✇	26mm 1/2 Taper-cut Double	90cm 120cm	PPL040TCN26B090-2	PPL030TCN26B090-2 PPL030TCN26B120-2	PPL020TCN26B090-2 PPL020TCN26B120-2	PPL001TCN26B120-2	
	✇	31mm 1/2 Taper-cut Double	90cm		PPL030TCN31B090-2	PPL020TCN31B090-2	PPL001TCN31B090-2	
	✇	40mm 1/2Taper-cut Double	90cm		PPL030TCN40B090-2	PPL020TCN40B090-2		
	✇	17mm 3/8 Taper-cut Double	75cm	USP 5-0 PPL050TCN17C075-2				
	✇	26mm 3/8 Taper-cut Double	75cm 120cm	PPL040TCN26C075-2 PPL040TCN26C120-2				
	✇	17mm 1/2 Taper-cut Double	90cm	PPL040TCN17B090-2	PPL030TCN17B090-2	PPL020TCN17B090-2		
	✇	26mm 1/2 Taper-cut Double	90cm		PPL030TCN26B090-2	PPL020TCN26B090-2		
	✇	36mm 1/2 Taper-cut	100cm				PPL000TCN36B100-1	
	✇	45mm 1/2 Taper-cut	100cm					PPL001TCN45B100-1
	✇	31mm J Needle Taper-cut	100cm				PPL000TCN31F100-1	
	▽	40mm 1/2 Reverse Cutting	100cm				PPL000RCN40B100-1	
	▽	48mm 1/2 Reverse Cutting	100cm					PPL001RCN48B100-1
	▽	8mm 3/8 Reverse Cutting-Prime Needle	45cm	USP 6-0 PPL060RPN08C045-1				
	▽	11mm 3/8 Reverse Cutting-Prime Needle	45cm	USP 6-0 PPL060RPN11C045-1				

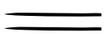
Pidilen™ Non absorbable Polypropylene

Needle	Point Shape	Needle Description	Length	USP SIZE				
				6-0	5-0	4-0	3-0	2-0
	▽	13mm 3/8 Reverse Cutting-Prime Needle	45cm	PPL060RPN13C045-1	PPL050RPN13C045-1			
	▽	16mm 3/8 Reverse Cutting-Prime Needle	45cm		PPL050RPN16C045-1	PPL040RPN16C045-1		
	▽	19mm 3/8 Reverse Cutting-Prime Needle	45cm			PPL040RPN19C045-1		
	▽	13mm 3/8 Reverse Cutting-P Needle	45cm 75cm		PPL050RPN13C075-1	PPL040RPN13C045-1 PPL040RPN13C075-1		
	▽	16mm 3/8 Reverse Cutting-P Needle	75cm		PPL050RPN16C075-1			
	▽	19mm 3/8 Reverse Cutting-P Needle	45cm 75cm		PPL050RPN19C045-1	PPL040RPN19C045-1 PPL040RPN19C075-1	PPL030RPN19C075-1	
	▽	26mm 3/8 Reverse Cutting-P Needle	45cm				PPL030RPN26C045-1	PPL020RPN26C045-1
	▽	19mm 3/8 Reverse Cutting	45cm			PPL040RCN19C045-1		
	▽	26mm 3/8 Reverse Cutting	45cm				PPL030RCN26C045-1	
	△	16mm 3/8 Conventional Cutting Prime Needle	45cm	PPL060CPN16C045-1	PPL050CPN16C045-1	PPL040CPN16C045-1		
	△	19mm 3/8 Conventional Cutting Prime Needle	45cm		PPL050CPN19C045-1	PPL040CPN19C045-1	PPL030CPN19C045-1	
	△	26mm 3/8 Conventional Cutting Prime Needle	45cm	PPL060CPN26C045-1	PPL050CPN26C045-1	PPL040CPN26C045-1	PPL030CPN26C045-1	
	△	16mm 3/8 Conventional Cutting P Needle	45cm	PPL060CPN16C045-1	PPL050CPN16C045-1	PPL040CPN16C045-1		
	△	19mm 3/8 Conventional Cutting P Needle	45cm		PPL50CPN16C045-1	PPL040CPN19C045-1		
	△	26mm 3/8 Conventional Cutting P Needle	45cm			PPL040CPN26C045-1	PPL030CPN26C045-1	
	△	16mm 3/8 Conventional Cutting	75cm				PPL030CCN16C075-1	
	△	26mm 3/8 Conventional Cutting	45cm			PPL040CCN26C045-1		

Pidilen™ Non absorbable Polypropylene

Needle	Point Shape	Needle Description	Length	USP SIZE		
				3-0	2-0	0
	◭	36mm 3/8 Conventional Cutting	75cm	PPL030CCN36C075-1		
	◭	36mm 3/8 Conventional Cutting	75cm	PPL030CCN36C075-1		
	◭	40mm 3/8 Conventional Cutting	100cm		PPL020CCN40C100-1	
	◭	90mm 3/8 Conventional Cutting	2X50cm	USP 1 PPL001CCN90C050-1*2		
	◭	90mm 3/8 Conventional Cutting	90cm		PPL020CCN90C090-1	
	◭	22mm 1/2 Conventional Cutting	45cm	PPL030CCN22B045-1		
	▽	55mm Straight Cutting	90cm		PPL020RCN55E090-1	
	▽	60mm Straight Cutting	75cm		PPL020RCN60E075-1	
	▽	60mm Straight Cutting	75cm		PPL020RCN60E075-1	
	▽	60mm Straight Cutting	75cm		PPL020RCN60E075-1	
	▽	60mm Straight Cutting	75cm	PPL030RCN60E075-1		
	▽	60mm Straight Cutting	75cm	PPL030RCN60E075-1		
	▽	60mm Straight Cutting	75cm	PPL030RCN60E075-1		
	▽	75mm Straight Cutting	100cm	PPL030RCN75E100-1	PPL020RCN75E100-1	PPL000RCN75E100-1

Pidilen™ Non absorbable Polypropylene

Needle	Point Shape	Needle Description	Length	USP SIZE	
				10-0	9-0
	▽	6.5mm 3/8 Spatula	30cm	PPL100SPN06C030-1	
	▽	6.5mm 3/8 Spatula Double	30cm	PPL100SPN06C030-2	
	▽	6.5mm 3/8 Spatula	23cm	PPL100SPN06C023-1	PPL090SPN06C023-1
	▽	6.5mm 3/8 Spatula Double	30cm	PPL100SPN06C030-2	
	✇	13mm 1/4 Taper-cut	20cm	PPL100TCN13A020-1	
	⊙	16mm Straight Taper	15cm loop	PPL100TPN16E015-1L	
	⊙	16mm Straight Taper Double	23cm	PPL100TPN16E023-2	
	▽	13mm 1/4 Spatula	10cm loop	PPL100SPN13A010-1L	
	⊙	5mm 3/8 Taper	13cm	PPL100TPN05C013-1	PPL090TPN05C013-1
	⊙	5mm 3/8 Taper	13cm		PPL090TPN05C013-1

KOLLNOVA DOUBLE ™ Non absorbable PVDF

Needle	Point Shape	Needle Description	Length	USP SIZE			
				8-0	7-0	6-0	5-0
	⊙	6.5mm 3/8 taper	45cm	PVL080TPN6.5C045-2			
	⊙	6.5mm 3/8 taper	60cm	PVL080TPN6.5C060-2			
	⊙	8mm 3/8 taper	60cm	PVL080TPN08C060-2	PVL070TPN08C060-2		
	⊙	9mm 3/8 taper	45cm 75cm		PVL070TPN09C045-2 PVL070TPN09C075-2	PVL060TPN09C045-2 PVL060TPN09C075-2	
	⊙	13mm 3/8 taper	45cm				PVL050TPN13C045-2
	⊙	13mm 3/8 taper	60cm			PVL060TPN13C060-2	PVL050TPN13C060-2
	⊙	13mm 3/8 taper	75cm			PVL060TPN13C075-2	
	⊙	13mm 3/8 taper	90cm				PVL050TPN13C090-2
	⊙	13mm 1/2 taper	75cm			PVL060TPN13B075-2	PVL050TPN13B075-2
	⊙	22mm 1/2 taper	75cm	USP 3-0 PVL030TPN22B075-2	USP 4-0 PVL040TPN22B075-2		
	⊙	26mm 1/2 taper	90cm	USP 2-0 PVL020TPN26B090-2	USP 3-0 PVL030TPN26B090-2	USP 4-0 PVL040TPN26B090-2	
	✇	9mm 3/8 taper-cut	60cm		PVL070TCN09C060-2		
	✇	13mm 3/8 taper-cut	75cm			PVL060TCN13C075-2	
	✇	26mm 1/2 taper-cut	90cm	USP 3-0 PVL030TCN26B090-2	USP 4-0 PVL040TCN26B090-2		

KOFLON ™ Non absorbable PTFE

Needle	Point Shape	Needle Description	Length	USP SIZE				
				6-0	5-0	4-0	3-0	2-0
	▽	13mm 3/8 Reverse Cutting	45 cm	PTU060RCN13C045-1	PTU060RCN13C045-1	PTU060RCN13C045-1		
	▽	13mm 3/8 Reverse Cutting	75 cm	PTU060RCN13C075-1	PTU060RCN13C075-1	PTU060RCN13C075-1		
	▽	16mm 3/8 Reverse Cutting	75 cm		PTU050RCN16C075-1	PTU040RCN16C075-1	PTU030RCN16C075-1	
	▽	19mm 3/8 Reverse Cutting	75 cm		PTU040RCN19C075-1	PTU040RCN19C075-1	PTU030RCN19C075-1	
	▽	24mm 3/8 Reverse Cutting	75cm 90cm			PTU040RCN24C075-1 PTU040RCN24C090-1	PTU030RCN24C075-1 PTU030RCN24C090-1	PTU020RCN24C075-1 PTU020RCN24C090-1

RIKID ™ Non absorbable Stainless steel

Needle	Point Shape	Needle Description	Length	USP SIZE				
				4/0	3/0	#1	#4	#5
	⊙	31mm 1/2 Taper	75cm	SS040TPN31B075-1	SS030TPN31B075-1			
	✇	40mm 1/2Tapercut	4*45cm			SS001TCN40B045-1*4		
	✇	48mm 1/2 Tapercut	4*45cm				SS004TCN48B045-1*4	SS005TCN48B045-1*4
	✇	55mm 1/2 Tapercut	75cm					SS005TCN55B075-1
	▽	48mm 1/2 Reverse cutting	4*45cm	USP 7 SS007RCN48B045-1*4				
	▽	55mm 1/2 Reverse cutting	4*45cm					SS005RCN55B045-1*4
	▽	55mm 1/2 Reverse cutting	75cm					SS005RCN55B075-1
	▽	55mm 1/2 Reverse cutting	2*75cm					SS005RCN55B075-1*2

SIETKA™ HERNIA MESH — Non absorbable — Polypropylene Mesh

For the Repair of Hernia and Other Deficiencies in the Fascia.

Technical Details

- Non Absorbable, Monofilament Polypropylene Mesh
- Knitted design
- Filament thickness: 0.675mm
- Support: Permanent
- Burst Strength: 18Kg/cm2
- Sterilized by EO

Advantages

- Bio compatible
- Flexible, strong, elastic & transparent mesh.
- Ideal porosity for high visibility & colonization.
- High strength & burst resistance for permanent support.
- Flexible for any anatomic placement
- No shrinkage-provides long term material stability.
- Thinner mesh available on request for Laparoscopic surgery.
- OEM brands available.
- Extremely economical.

European Market Trend

The European market trend for polypropylene prosthesis is to implant it by endoscope route, more precisely laparoscopic route, in about 60% of the operations.

The polypropylene mesh material currently accounts for almost 80% of sales world-wide.

Polypropylene mesh is the most recommended material for hernia repair.

Polyester material is not recommended at all in incision hernia repair. See reference article from archives of surgery 1998; 133:378-382 title: Long-term complications associated with prosthetic repair of incision hernias.

Hernia

A hernia is a protrusion of an organ (or part of an organ) through its containing wall. Before a hernia can form, there must be a weakness at the containing wall (commonly of abdominal muscles). The weakness may be congenital or it may be acquired.

At the site of a hernia, a bulge is noticeable, that can contain fat, intestine or other tissue. This bulge can be either reducible, meaning that the fat or tissue can be pushed back into the abdominal cavity and the hernia will flatten and disappear, or non-reducible, which means the fat or tissue cannot be pushed back into the abdomen and the hernia will not flatten.

In the latter situation the risk of strangulation occurs, which can lead for instance to constipation, blood in the stool, fever, vomiting or shock. These symptoms require immediate medical attention.

Hernias are classified as follows:

Inguinal hernia.
Occurs in the groin (area between the abdomen and the thigh). It is called "inguinal" because the intestines push through a weak spot in the inguinal canal, which is a triangle-shaped opening between layers of abdominal muscle near the groin.

Epigastric hernia.
A linear Alba hernia protrudes anywhere between the xiphoid process and the umbilicus, but usually in the mid line between these two structures.

Umbilical hernia.
An umbilical hernia is a small hole in the abdominal wall at the umbilicus (belly button).

Femoral hernia.
A femoral hernia is a loop of the intestine or intestinal covering that has been forced out of the abdomen through a channel called the "femoral canal" (a tube shaped passage at the top of the front of the thigh).

Incisional hernia.
Incisional hernias develop in 3.8 – 11.5% of cases after abdominal surgery. 90% of incidence occurs within 3 years of operation.

Treatment

An open hernia repair requires an incision about the length of the bulge that is present. The tissue layers are divided until the hole is identified. The tissue around the hole is dissected to find good, strong, healthy tissue, known as fascia. The fascia is the fibrous layer that provides the strength to the abdominal wall. The hole is then closed, either by suturing together the good strong tissue on either side of the hole or by applying a Polypropylene Mesh across it to patch the hole. Following the repair, the layers of the tissue are brought back together with sutures and the skin is closed with stainless steel staples, dissolvable or non-dissolvable sutures.

Contraindications

It is contraindicated in infants, children, pregnancy or persons with future growth potential, as this product will not stretch significantly. Is contraindicated in contaminated or infected wounds as infection may require removal of the mesh.

Warning

It is provided as a sterile product. Re-sterilization of the device is NOT recommended. Kollsut® Corporation rejects any responsibility regarding the use of fixation devises which do not follow the recommended guidelines for this type of product. Avoid direct contact with the viscera intestines to avoid the possibility of adhesions.

Precautions

Handling of Hernia Mesh should be with sterile technique and avoid any contact with cutting or sharp instruments since it can damage the mesh. A minimum of 7mm of mesh should extend beyond the suture line.

Adverse Reaction

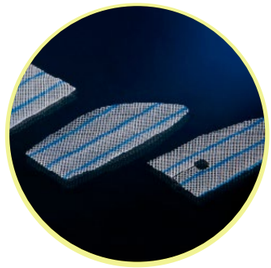
No side effect due to use of polypropylene mesh is known. Complications that may occur due to implantation of any surgical mesh include, but are not limited to, infection, inflammation, fistula formation, extrusion and adhesion formation (when placed in direct contact with the intestine).

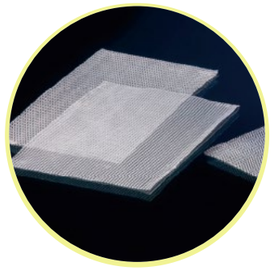
Instructions for Use

It is recommended that staples, suture clips or non-absorbable sutures be placed 0.7mm to 1.2mm from the edge of the Mesh material for best results.

SIETKA Henia Mesh

Material	Polypropylene Heavy Weight				
Shape	Gram/m2	SKU	Size cm	Pcs/Box	Box/Ctn
	80g	P8R-2.5X10	2.5 X 10	5	50
		P8R-5X10	5 X 10	5	50
		P8R-6X11	6 X 11	5	50
		P8R-8X12	8 X 12	5	50
		P8R-9X13	9 X 13	5	50
		P8R-8X15	8 X 15	5	50
		P8R-10X15	10 X 15	5	50
		P8R-15x15	15 X 15	5	50
		P8R-15X20	15 X 20	5	50
		P8R-20X30	20 X 30	5	50
		P8R-25X36	25 X 36	5	50
		P8R-30X30	30 X 30	5	50
		P8B-4.5X8.9	4.5 X 8.9	5	50
		P8B-6X13	6 X 13	5	50
		P8D-6X13.5	6 X 13.5	5	50
		P8S-6X13.5	D10 6X13.5	1	40



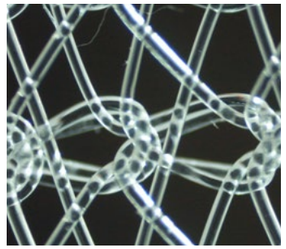


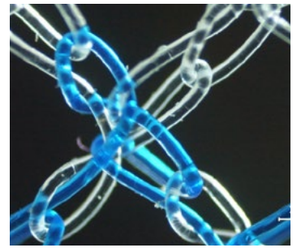
SIETKA Henia Mesh

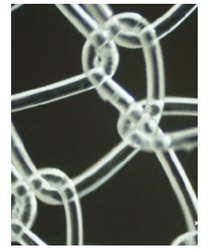
Material	Polypropylene Regular Weight				
Shape	Gram/m2	SKU	Size cm	Pcs/Box	Box/Ctn
	60g	P6R-2.5X10	2.5 X 10	5	50
		P6R-5X10	5 X 10	5	50
		P6R-6X11	6 X 11	5	50
		P6R-8X12	8 X 12	5	50
		P6R-9X13	9 X 13	5	50
		P6R-8X15	8 X 15	5	50
		P6R-10X15	10 X 15	5	50
		P6R-15X15	15 X 15	5	50
		P6R-15X20	15 X 20	5	50
		P6R-20X30	20 X 30	5	50
		P6R-25X36	25 X 36	5	50
		P6R-30X30	30 X 30	5	50
		P6B-4.5X8.9	4.5 X 8.9	5	50
		P6B-6X13	6 X 13	5	50
		P6I-6X13.5	6 X 13.5	5	50
		P6P-6X11	D8 6X11	1	40
		P62-5X13	D13.5 5X13	1	40

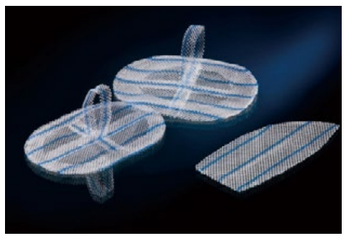
SIETKA Henia Mesh

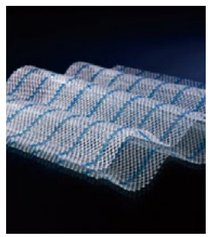
Material	Polypropylene Light Weight				
Shape	Gram/m2	SKU	Size cm	Pcs/Box	Box/Ctn
	40g	P4R-2.5X10	2.5 X 10	5	50
		P4R-5X10	5 X 10	5	50
		P4R-6X11	6 X 11	5	50
		P4R-8X12	8 X 12	5	50
		P4R-9X13	9 X 13	5	50
		P4R-8X15	8 X 15	5	50
		P4R-10X15	10 X 15	5	50
		P4R-15X15	15 X 15	5	50
		P4R-15X20	15 X 20	5	50
		P4R-20X30	20 X 30	5	50
		P4R-25X36	25 X 36	5	50
		P4R-30X30	30 X 30	5	50
		P4B-4.5X8.9	4.5 X 8.9	5	50
		P4B-6X13	6 X 13	5	50
		P42-5X13	D13.5 5X13	1	40
		P4S-5.5X12-8	D8.3 5.5X12	1	40
		P4S-5.5X12-9	D9.6 5.5X12	1	40
		P4P-6X11-8	D8.3 6X11	1	40
		P4P-6X11-9	D9 6X11	1	40





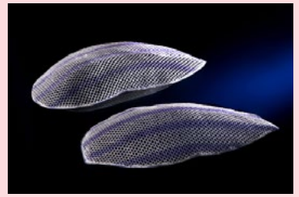


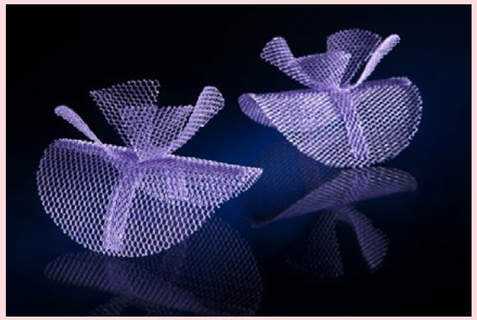


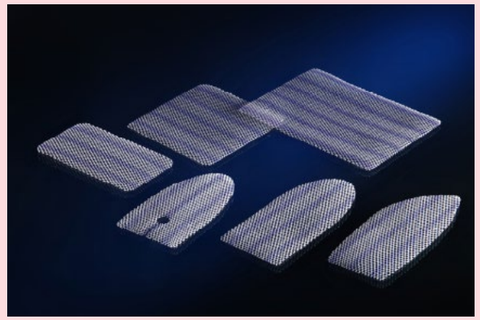


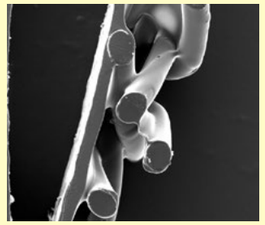
SIETKA Plus Henia Mesh

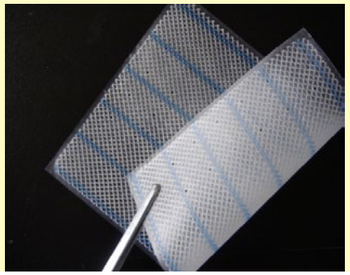
Material	Partial Absorbable Polypropylene with PGCL			
Shape	SKU	Size cm	Pcs/Box	Box/Ctn
	A6R-5X10	5 X 10	5	40
	A6R-6X11	6 X 11	5	40
	A6R-8X15	8 X 15	5	40
	A6R-15X15	15 X 15	5	40
	A9P-6X11-7	D7 6X11	1	36
	A9P-6X11-7.5	D7.5 6X11	1	36
	A9S-10	D10	1	36
	A9S-5X13.5-10	D10 6X13.5		
	A3R-15	D15	1	24
	A3L-15			











SIETKA Premium Henia Mesh

Material	Composite Adhesion Prevention Polypropylene with PLCL			
Shape	SKU	Size cm	Pcs/Box	Box/Ctn
	L18R-10X15	10 X15	1	10
	L18R-15X15	15 X 15	1	10
	L18R-15X20	15 X20	1	10
	L18R-20X25	20 X 25	1	10
	L18R-20X30	20 X 30	1	10
	L18R-30X30	30 X30	1	10
	L18V-10	D10	1	10
	L18V-12	D12	1	10
	L18V-15	D15	1	10

Iglacath™ IV Cannula w/wings and injection port — Sterile

The I.V. Cannula has been designed specially with wings and an injection port, which acts as a second access way for intermittent infusions. 6% luer taper for compatibility with any international product. It ensures painfree & smooth penetration.

General Specifications

- Sterile, Single use and on pyrogenic
- The flash back chamber allows quick visualization of venous return
- Wings specially designed for easy gripping and safe clamping
- Needle cover to prevent accidental damage to needle or catheter
- Intermittent Non Return Valve to prevent leakag
- Colour coded port cap as per ISO Standards

Salient Features

Cannula

- Japanese Stainless steel (AISI 304) needle with diameter and length adhering to all ISO standards
- Triple Point Needle for painless insertion

Catheter

- Thin walled catheters with the following options available
- Teflo
- PUR

Special Characteristics

- Customized Automated Tipping Technology for lower penetration forces. Minimum Clearance between catheter and needle to avoid peel-back
- Catheter Material as per USP standards Class VI

Packaging Options

- Blister
- Medical Grade Paper / Tyvek with standard Plastic Film

Iglacath™ IV Cannula without wings and injection port — Sterile

The I.V. Cannula has been designed specially without wings and without an injection port for special necessities of infusional therapy. 6% luer taper for compatibility with any interna tional product. It ensures painfree & smooth penetration.

General Specifications

- Sterile, Single use and on pyrogenic
- The flash back chamber allows quick visualization of venous return
- Needle cover to prevent accidental damage to needle or catheter
- Colour coded port cap as per ISO Standards

Salient Features

Cannula

- Japanese Stainless steel (AISI 304) needle with diameter and length adhering to all ISO standards
- Triple Point Needle for painless insertion

Catheter

- Thin walled catheters with the following options available
- Teflo
- PUR

Special Characteristics

- Customized Automated Tipping Technology for lower penetration forces. Minimum Clearance between catheter and needle to avoid peel-back
- Catheter Material as per USP standards Class VI

Packaging Options

- Blister
- Medical Grade Paper / Tyvek with standard Plastic Film