



LINXobere Medizintechnik GmbH

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About us

We care about you That's what we do

We are committed to maintain our costs to keep our prices in affordable level. We are also committed to prompt supply, post sales surveillance and monitoring of safety and efficacy of our products. These are the main subjects on top of our priorities.

We are committed to consider all patients, healthcare professionals, concerned authorities, distributors and employees as stakeholders who shall equality thrive through our meaningful activities.

We are committed to improve everything around us, starting from our beautiful city Bremen to the whole planet earth. We are committed to use the best ECO friendly technologies to save the mother earth for the next generations.

We are committed to science and technology. Our goals are set to change the global standards to a higher level. We are responsible to give the next generation the gift of knowledge as our predecessors did for us.

Manufacturing Process

LINXobere Manufacturing Facilities in Bremen are Equipped With the Best Technologies

The production process is designed to avoid any possible mistake. From needle manufacturing to final stage of packaging we manufacture our products with fully automatic robotic machineries. Through several different logs and batch information tracing finished products has become possible.

Unique in-house & customized machineries have enable us to manufacture the best medical devices has been ever made.

So we use the best testing methods to measure ourselves. It is not a random process we test every single product we manufacture before release it.

In LINXobere facility we manufacture the best steel wires of 300 and 400 series by our self to ensure the quality of our needles.

Atraumatic needles are manufactured both of drilled-end and channel type, and are made from stainless steel to custom 455, 1RK91, austenitic AISI 302 and as appropriate for the application. Presently we are manufacturing atraumatic needles USP 11/0 to USP 7.

For tender: Thai Nguyen Hospital

Our Products

Sutures

Absorbable



Polyglycolic acid (PGA)



Polyglycolic acid (RPGA)



Polyglactin 910 (PGLA 910)



Polyglactin 910 (RPGLA 910)



Poliglecaprone 25



Polydioxanone (PDO)



Natural plain catgut



Natural chromic catgut

Sutures

Non-Absorbable



Natural Silk



Polyamide 6



Polypropylene (PP)



Polyester

Meshes

X-MESH

Regular



X-MESH

Light





Sutures Material

Absorbable

Mater	Material		BSR Profile	Mass Absorption
VIPRONE (Polyglycolic Acid) Comparable to: Vicryl		Braided - Undyed (clear) - Dyed (Violet) Monofilament - Undyed (Clear) - Dyed (Violet) - Coated & Uncoated Common Uses: Skin Closure, OB/Gyn, Urology, Gastrointestinal	In Vivo Strength Retention: 50% at 14 days 20% at 21 days	Essentially Complete Between 50 and 90 Days
RAPID VIPRONE (Polyglycolic Acid) Comparable to: Vicryl Rapide*		Braided - Undyed (Clear) - Dyed (Violet) Common Uses: General Closure, OB/Gyn, Urology	In Vivo Strength Retention: 48% at 7 days 0% at 14 days	Essentially Complete Between 49 and 63 Days
VIPRONE 910 (Polyglactin 910) Comparable to: Vicryl		Multifilament , Coated - Undyed (Clear) - Dyed (Violet) Common Uses: General Soft Tissue Approximation and/or-Ligation, Including use in Ophthalmic Procedures, but not for use in Cardiovascular and Neurological Tissues.	In Vivo Strength Retention: 75% at 14 days 50% at 21 days 25% at 28 days	Essentially Complete Between 56 and 70 Days
RAPID VIPRONE 910 (Polyglactin 910) Comparable to: Vicryl Rapide		Multifilament , Coated - Undyed (Clear) - Oyed (Violet) Common Uses: Soft Tissue Approximation, Skin Closure, Paediatric Surgery, Episiotomies, Circumcision and Closure of Oral Mucosa, Ophthalmic Surgery	In Vivo Strength Retention: 75% at 14 days 50% at 21 days 25% at 28 days	Essentially Complete by 42 Days
MONOPRONE (Poliglecaprone 25) Comparable to: Monocryl*		Monofilament - Undyed (Clear) - Dyed (Violet) Common Uses: Skin Closure, OB/Gyn, Urology, Gastrointestinal	In Vivo Strength Retention: 42% to 76% at 7 days 36% to 52% at 14 days	Essentially Complete by 90 Days
PDO (Polydioxanone) Comparable to: PDS 11*		Monofilament - Dyed (Violet) Common Uses: Plastic Surgery, Orthopedic, OB/Gyn, Gastrointestinal	In Vivo Strength Retention: 80% to 90% at 14 days 60% to 82% at 28 days 47% to 79% at 42 days	Essentially Complete Between 180 and 220 Days
X-PLAIN (Natural Plain Catgut) Comparable to: Surgical Gut Suture - Plain		Twisted Plain Packaged Dry or in Wetting Solution Common Uses: General Closure, OB/Gyn, Urology. Bowel Anastomosis	In Vivo Strength Retention: Varies	Varies Depending Upon Type of Suture (Plain Vs. Chromic) and site of placement
X-CHROME (Natural Chromic Catgut) Comparable to: Surgical Gut Suture - Chromic		Twisted Chromic Coated Packaged Dry or in Wetting Solution Common Uses: General Closure, OB/Gyn, Urology, Bowel Anastomosis	In Vivo Strength Retention: Varies	Varies Depending Upon Type of Suture (Plain Vs. Chromic) and Site of Placement

Non-Absorbable

Mat	erial	Material Description	Qualities
SILK (Natural Silk) Comparable to: Perma-Hand* Silk		Braided - Undyed (White) - Dyed (Blue and Black) - Coated Common Uses: General & Skin Closure, Gastrointestinal, Cardiovascular Surgery, Plastic Surgery, Ophthalmology	Excellent Handling and Tying Characteristics
NYLON (Long-Chain Aliphatic Polyamide Nylon 6 & 6.6) Comparable to: Ethilon*		Monofilament - Undyed (Clear) - Dyed (Blue and Black) - Packaged dry or in wetting solution Common Uses: General & Skin Closure, Gastrointestinal, Cardiovascular Surgery, Plastic Surgery, Ophthalmology	Passes Easily Through Tissue
CARDIOPILENE (Polypropylene) Comparable to: Prolene*		Monofilament - Undyed (Clear) - Dyed (Blue) Common Uses: General & Skin Closure, Neurosurgery, Plastic Surgery, Ophthalmology, Microsurgery, Cardiovascular Surgery	Inert Easy to Handle Passes Easily Through Tissue
X-BOND (Polyester) (Uncoated):Comparable to: Mersilene* (Coated):Comparable to: Ethibond*		Braided - Undyed (White) - Dyed (Green) - Coated - Uncoated Common Uses: General & Skin Closure, Plastic Surgery, Ophthalmology, Cardiovascular Surgery, Neurological Procedures	Smooth Easy to Handle Good Knot Security

For tender: Thai Nguyen Hospital



Guarantee Of Consistent High Quality

Used For	Symbol		
Do Not Reuse	(2)	Caution Consult Accompanying Documents	\triangle
Date Of Manufacture (YYYY-MM-DD)		Authorized Representative In The European Community	EC REP
Sterilized Using Ethylene Oxide	RILE EO	In Vitro Diagnostic Medical Device	IVD
Catalog Number	REF	Temperature Limitation	
Manufacturer		Batch Code	LOT
For In Vitro Diagnostic Performance Evaluation Only	?	Sterile S.	TERILE
Lower Limit Of Temperature		Sterilized Using Dry Or Steam Heat	ERILE
Biological Risk		Sterilized Using Aseptic Processing Technique	RILEA
Use By (YYYY-MM-DD)		Contains Sufficient Number For <n> Tests</n>	Σ
Serial Number	SN	Upper Limit Of Temperature	
Sterilized Using Irradiation	ERILE R	Consult Instructions For Use	<u>[i</u>



Certificates

It's All About The Quality

We Have Maintained Our Best Quality For Generations!

Our state of the art manufacturing facilities are approved by, EC and US-FDA.



















High Performance Surgical Needles

High Performance Surgical Needles

Quality And High Performance

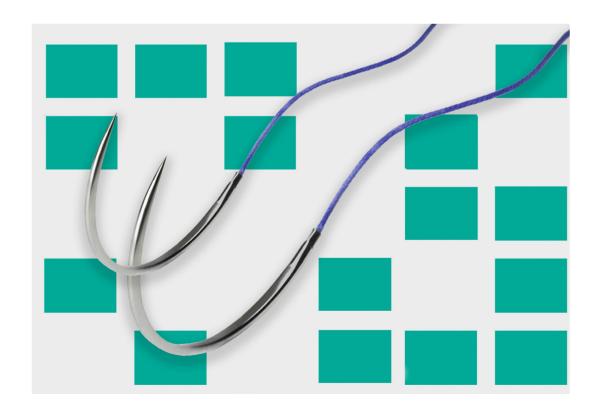
LINXobere needles have gained recognition over the years for their quality and high performance.

Constant Development

LINXobere has state of the art technology and is committed to constant research and development in order to improve needles to the need of all surgical disciplines.

More Than 300 Different Types Of Needles

LINXobere has over 300 different types of needles to meet the needs of the surgical procedure as well as the surgeon's personal preferences.



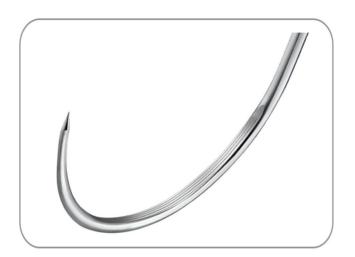


Unique Technologies, X-STEELMAX









X-STEELMAX

in LINXobere – Hamburg Facility we manufacture the best Steel wires of 300 and 400 series to ensure the quality of our needles

Alloy Grade Types (Series)

300 Series

300 Series are composed of 18% chromium and 8% / 10% nickel

420 Series

S42000 stainless steel is composed of 12-14% chromium without nickel or titanium

455 Series

S45500 is composed of 7.5-9.5% nickel, 0.8-1.4% titanium and 11-12.5% chromium

X-alloy

Proprietary alloy composed of 12% Chrome, 9% Nickel, 2% Cu, 0.9% Ti plus addition of Molybdenum.





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X-STEELMAX

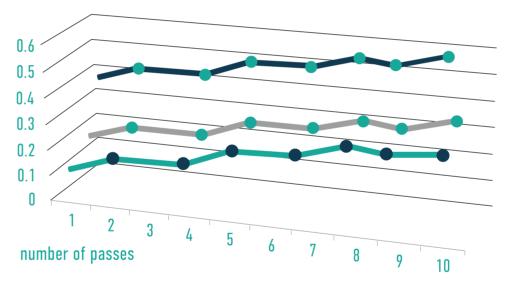
X-STEELMAX

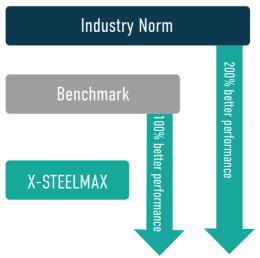
The Best Needles Made Of The Best Steel

LINXobere is dedicated to manufacture high performance surgical needles for sutures. As one of the biggest manufacturers, the company produces and supplies suture needles worldwide. Using exclusive stainless steel X-STEELMAX® materials, surgical needles are made from the highest quality, the 300 series. With a full

comprehensive range, LINXobere surgical needles cover general surgery and specialty surgery such as cardio-vascular, plastic surgery and sternal closure.







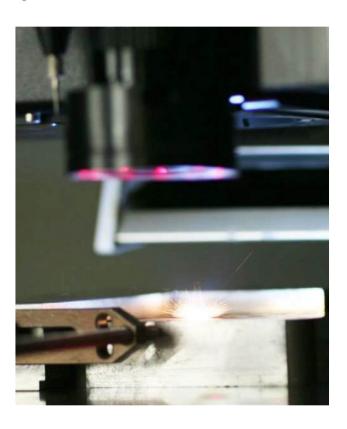


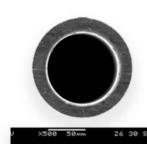
X-LASER PLUS

X-LASER PLUS

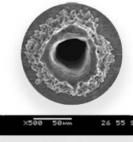
A Modern Technique In Micro Drills.

Laser ablation is not new! Few of surgical needle manufacturers are using this technique instead of drilling. X-LASER invented by LINXobere Medizintechnik GmbH is a unique technology for micro drilling of surgical needles through combining SHORT PULSE LASER + EDM with significant better outcome.





X-LASER PLUS LASER+EDM



Laser drilled





X-POLISH

X-POLISH

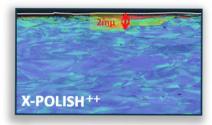
Needle polishing techniques is very important as energy based techniques could affect the integrity of needle and change its physical and chemical attributions. This may lead to easy bending and also breaking of the needle during the surgical operations.

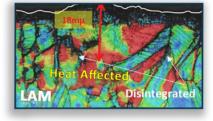
A well-polished needle can pass more smoothly through the tissue with less bleeding.

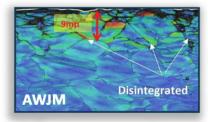
Older techniques like Abrasive Water Jet Machining (AWJM), Elector Discharge Machining (EDM) and Laser Ablation Machining (LAM) is being used by many benchmark brands.

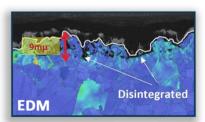
in LINXobere Medizintechnik GmbH we invented X-POLISH which is a sophisticate combined of EDM+AWJM+LAM.

- Best Result
- Minimum Disintegration
- Minimum Heat Affection











The Linxobere's Top Needle Range

The Linxobere's Top Needle Range

Needles Made Of High Quality Stainless Steel Alloy

X-PRIME and X-CC needles are the result of both extensive research in metallurgical technology and clinical experience



Bending Resistance With High Performing Needles

- · Special steel confers superior strength
- Outstanding bending and breaking resistance

Penetration Specific Needle Tip Design

- Continuous penetration performance passes after pass
- Engineered surface treatment that improves needle



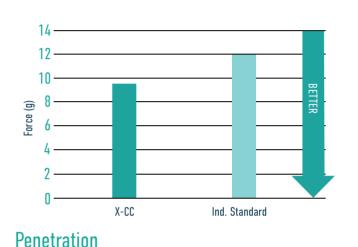
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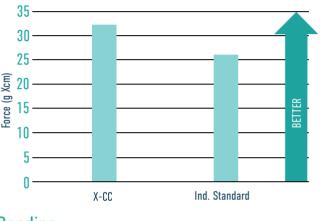
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Penetration And Bending Performance

Penetration And Bending Performance

For 3/8 Circle Round Body 10 mm Taper Point Needle USP 7/0





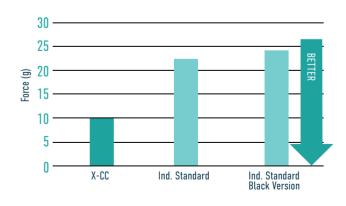
Bending

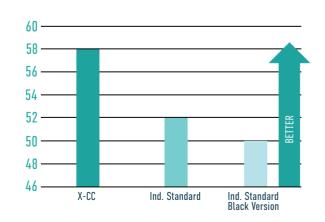
Average penetration force after 10 stitches Maximum force applied to bend the needle

Source: Internal laboratory tests

Penetration And Bending Performance

For 3/8 Circle Round Body 13 mm Taper Point Needle USP 6/0





Penetration

Average penetration force after 10 stitches

Bending

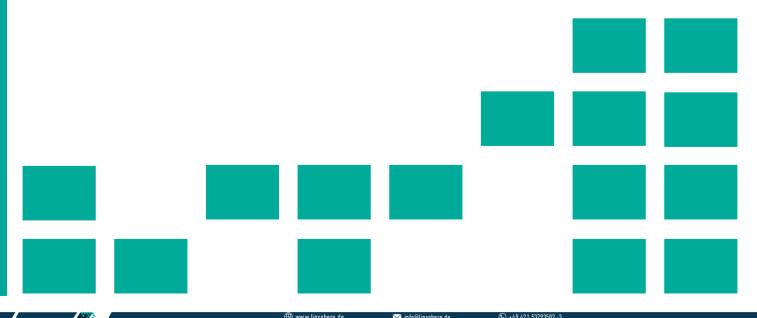
Maximum force applied to bend the needle

Source: Internal laboratory tests



Our Needle Types

Needle Type	Point	Description	Commonly Use For
TAPER POINT	Ó	Round shaft, straight or curved, taper point with no cutting edge	Soft tissue closure such as fascia, vascular, gastrointestinal, and most soft tissue below the skin
TAPER POINT - HEAVY	•	Round shaft, straight or curved, taper point with no cutting edge with heavier diameter	whereas heavier diameters are required for tougher tissue such as muscle
SLIM BLADE TAPER POINT	•	Round shaft, straight or curved, taper point with no cutting edge	Smaller diameter, suitable for relatively soft tissue with the aim of ensuring clean and smooth penetration
X-V BLACK	•	Round shaft, curved, taper point with no cutting edge	specially blackened needle in order to avoid dazzling, suitable for cardiovascular procedures – calcified arteries
X-GUARD	0	The X-GUARD Needle point is sharp enough to penetrate fascia and muscle but not skin	suitable for blunt tissue dissection and suturing of friable tissue
BLUNT POINT	0	Round shaft, straight or curved, with no cutting edge and ball point	This needle has been designed for suturing extremely friable tissue such as the liver
X-CC		Round shaft, straight or curved, with cutting point no cutting edge	Significantly improved penetration properties for the Cardiac / Vascular surgeon when suturing tough, calcified vessels
TAPER POINT PLUS		the tapered cross section immediately behind the tip has been flattened to an oval shape	This design was developed to help facilitate improved separation of tissue layers.
TAPERCUT		Four (4) cutting edges on the tip that taper to a rounded shaft	sclerotized, calcified and densely fibrous connective tissue, suitable for cardiovascular surgery, neurosurgery, neurological injuries, microvascular applications
REVERSE CUTTING		triangular in cross section, having the apex cutting edge on the outside of the needle curvature	The third cutting edge on the outer, convex, curved part of the needle, suitable for particularly dense tissues which are difficult to permeate
REVERSE CUTTING HEAVY		Reverse Cutting with heavier diameter	larger diameter, suitable for particularly dense tissues which are difficult to permeate



For tender: Thai Nguyen Hospital

Our Needle Types

Needle Type	Point	Description	Commonly Use For
REVERSE CUTTING SLIM BLADE		Reverse Cutting with smaller diameter	smaller diameter, for relatively softer tissue with the aim of ensuring clean and smooth penetration, for cutaneous and subcutaneous sutures, suitable for plastic surgery
REVERSE CUTTING PRECISION POINT		Reverse cutting with extra sharp point and special polished	For using in softer tissues
REVERSE CUTTING MICROPOINT		very smooth and sharp, with the blade on the outer arc	suitable for eye surgery
X-PRIME REVERSE		A square body on the needle greatly increases needle strength and offers improved stability in the needle holder	Plastic and Cosmetic Surgery
CONVENTIONAL CUTTING		Triangular cross section with the apex of the triangle on the inside of the needle curvature.	Commonly used for general skin closure and in subcutaneous tissue in ophthalmic, plastic, reconstructive, and cardiovascular surgery
X-PRIME CUTTING		A square body on the needle greatly increases needle strength and offers improved stability in the needle holder.	suitable for Plastic and Cosmetic Surgery
X-TROCAR		strong cutting head which then merges into a robust round body	For easy penetration, deep in dense tissue
X-ULTIMA SPATULA		Six Side cut spatula	Ophthalmic surgery when precise suturing is required. Less damage and cut in soft tissues
MICROPOINT SPATULA		Thin, flat profile Spatula	For easy penetrate between the layers of scleral or corneal tissue.
CONVENTIONAL SPATULA		Spatula	for scleral suturing which requires stronger needles and where the elimination of cut out or cut down by a third edge is essential
ADVANCED MICRO POINT SPATULA	\overline{W}	Spatula needle with the cutting edge on the inner or outer curvature	For easy penetrate between the layers of scleral or corneal tissue.Commonly used in ophthalmic and microsurgery
CENTER POINT SPATULA	\Leftrightarrow	4 side cutting spatula	For easy penetrate between the layers of scleral or corneal tissue.





TAPER POINT

Suitable For Soft And Easily Permeable Tissue, Suitable For Neurosurgery, Microvascular Applications, Neurological Injuries



TAPER POINT HEAVY

Heavier In Diameter Suitable For Soft And Easily Permeable Tissue. Where More Force Is Required



SLIM BLADE TAPER POINT

Smaller Diameter, Suitable For Relatively Soft Tissue With The Aim Of Ensuring Clean And **Smooth Penetration**



TAPER POINT PLUS

This Design Was Developed To Help Facilitate Improved Separation Of Tissue Layers.



X-BLACK

Specially Blackened Needle In Order To Avoid Dazzling, Suitable For Cardiovascular Procedures - calcified Arteries





X-GUARD

Suitable For Blunt Tissue Dissection And Suturing Of Friable Tissue



BLUNT POINT

This Needle Has Been Designed For Suturing Extremely Friable Tissue Such As The Liver.



X-CC CARDIAC CALCIFIED

Significantly Improved Penetration Properties
For The Cardiac / Vascular Surgeon When Suturing
Tough, Calcified Vessels.



TAPER CUTTING

This Needle Combines The Initial Penetration Of a Cutting Needle With The Minimized Trauma Of a Round Bodied Needle.



REVERSE CUTTING

The Third Cutting Edge On The Outer, Convex,
Curved Part Of The Needle, Suitable For
Particularly Dense Tissues Which Are Difficult
To Permeate



REVERSE CUTTING HEAVY

Larger Diameter, Suitable For Particularly

Dense Tissues Which Are Difficult To Permeate



REVERSE CUTTING SLIM BLADE

Smaller Diameter, For Relatively Softer Tissue With The Aim Of Ensuring Clean And Smooth Penetration, For Cutaneous And Subcutaneous Sutures, Suitable For Plastic Surgery



X-TROCAR

Strong Cutting Head Which Then Merges Into a Robust Round Body



PRECISION POINT REVERSE CUTTING

Electrolytically Polished, Suitable Especially For Softer Tissue



X-PRIME CUTTING & REVERSE CUTTING

A Square Body On The Needle Greatly Increases

Needle Strength And Offers Improved Stability
In The Needle Holder.





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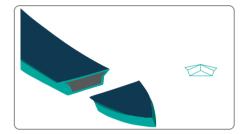
CONVENTIONAL CUTTING

This Needle Has a Triangular Cross Section With
The Apex Of The Triangle On The Inside Of The
Needle Curvature.



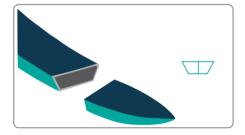
X-ULTIMA SPATULA

Six (6) Faceted Sides And Two (2) Cutting Edges On The Tip



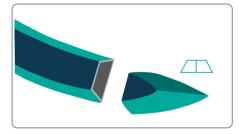
MICROPOINT SPATULA

An Extremely Sharp Cutting Point Has Been Merged Into a Square Body To Produce Superb Penetration Characteristics.



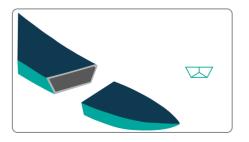
CONVENTIONAL SPATULA

Spatula With Excellent Visibility Of The Tip For Checking The Depth Of Penetration



ADVANCED MICRO POINT

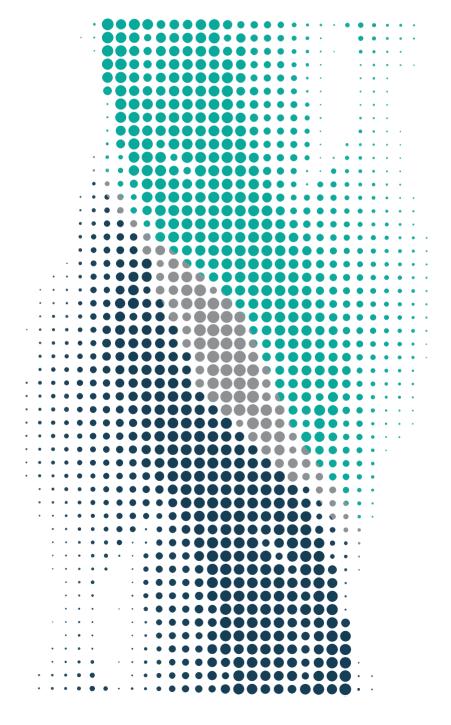
An extremely sharp cutting point has been merged into a square body to produce superb penetration characteristics.



CENTER POINT SPATULA

Two (2) cutting edges in a horizontal plane tapering to a round body



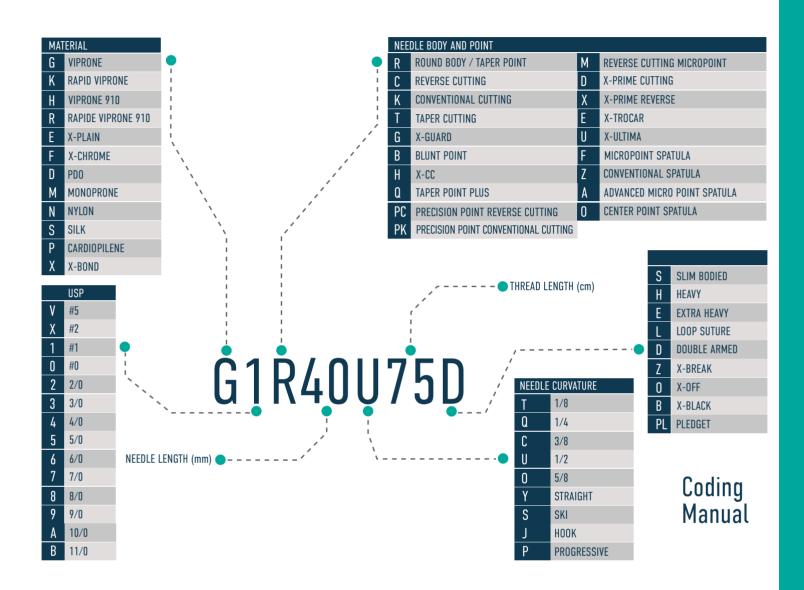




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Coding Manual







VIPRONE (Polyglycolic acid)

SUTURE

Description: Braided For easy handling and secure knot tying.

Coated For smooth passage through tissue and easy knot tie down.

Synthetic For minimal tissue reaction.

Absorbable By hydrolysis. Essentially complete in 60-90 days

Tensile strength: Post implantation Approximate % original Strength remaining

14 days 75%

21 days 50% (6-0 and larger) 40% (7-0 and smaller)

28 days 25% (6-0 and larger)

Color: Violet or undyed.

Range: 10-0 to 6 (USP). Supplied as needled sutures and ligatures.

Sizes 10-0 and 9-0 are monofilament in structure

INDICATIONS: VIPRONE* sutures are intended for use in soft tissue approximation and

/or ligation, including use in ophthalmic surgery, peripheral nerve adaptation and microsurgery for vessels less than 2 mm in diameter.

Typical areas of use include:

Fascia closure - due to the 28-day claim

Subcutaneous fat Joint capsule Uterus

Full details in the Instruction for Use included in every package.



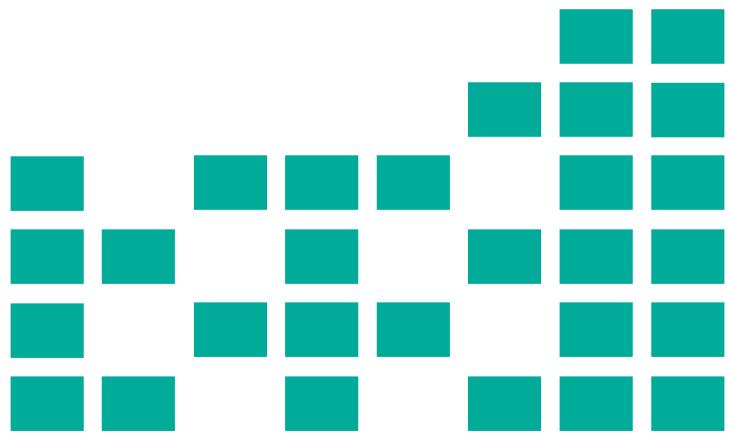


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VIPRONE (Polyglycolic acid)

1/2 Circle	Taper Point Needles							
	Needle		(USP)	(Metric)	Suture Color	Length (cm)	Other Information	LINXobere Code
R17U		17mm	5-0	1	VIOLET	70	TENDER REF: 12	G5R17U70
R22U		22mm	4-0	1.5	VIOLET	70	TENDER REF: 11	G4R22U70
R26U		26mm	3-0	2	VIOLET	70	TENDER REF: 10	G3R26U70
R26U		26mm	2-0	3	VIOLET	70	TENDER REF: 9	G2R26U70
R40U		40mm	1	4	VIOLET	90	TENDER REF: 8	G1R40U90





RAPID VIPRONE (Polyglycolic acid for faster absorption)

SUTURE

Description: Braided For easy handling and secure knot tying.

Coated For smooth passage through tissue and easy knot tie down.

Synthetic For minimal tissue reaction.

Absorbable By hydrolysis. Essentially complete in 42 days

Tensile strength: Post implantation Approximate % original Strength remaining

5 days 50% 10-14 days 0%

Rapid Viprone Suture tyoically falls off 7-10 days post - operative or can be wiped off subsequently with gauze. Normally the removal of the suture is not required.

Color: Violet or undyed.

Range: 8-0 to 1 (USP). Supplied as needled sutures and ligatures.

INDICATIONS: Rapid Viprone is intended for use in soft tissue approximation where

only short term wound support is required and where the rapid absorption

off the suture would be beneficial. Typical areas of use include:

- Skin closure, cuticular or sucuticular
- Episiotomies
- Closure of oral mucosa
- Conjunctival sutures in ophthalmic surgery

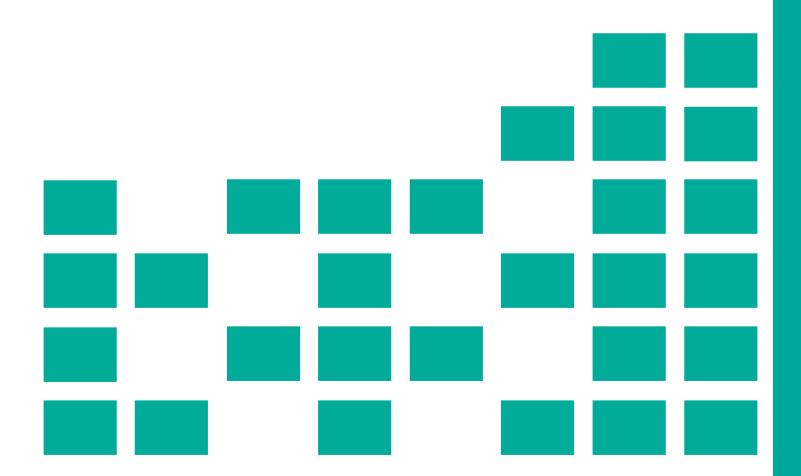
Full details in the Instruction for Use included in every package.





RAPID VIPRONE (Polyglycolic acid for faster absorption)

1/2 Circle	Reverse	Cutting Nee	dles	\overline{V}		
Needle	(USP)	(Metric)	Suture Color	Length (cm)	Other Information	LINXobere Code
C37U 37mm	2-0	3	VIOLET	90	TENDER REF: 13	K2C37U90





VIPRONE 910 (Polyglactin 910)

SUTURE

Description: Braided For easy handling and secure knot tying.

Coated For smooth passage through tissue and easy

knot tie down.

Synthetic For minimal tissue reaction.

Absorbable By hydrolysis. Essentially complete in 56-70 days

Tensile strength: Post implantation Approximate % original trength remaining

14 days 75%

21 days 50% (6-0 and larger) 40% (7-0 and smaller)

28 days 25% (6-0 and larger)

Color: Violet or undyed.

Range: 10-0 to 6 (USP). Supplied as needled sutures and ligatures. Sizes 10-0 and 9-0 are monofilament in structure

INDICATIONS: VIPRONE(910)* sutures are intended for use in soft tissue approximation and/or ligation, including use in ophthalmic surgery, peripheral nerve adaptation and microsurgery for vessels less than 2 mm in diameter.

Typical areas of use include:

• Fascia closure - due to the 28-day claim

Subcutaneous fat

- Joint capsule
- Uterus

Full details in the Instruction for Use included in every package.



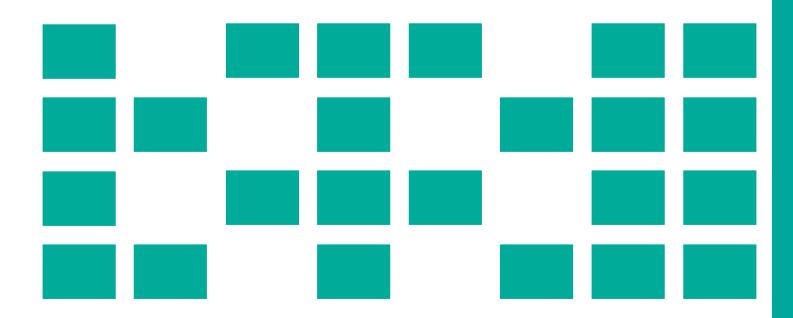


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1/2 Circle			Taper Poi	nt Needles		O		
	Needle		(USP)	(Metric)	Suture Color	Length (cm)	Other Information	LINXobere Code
R17U	\ J		4-0	1.5	VIOLET	75	TENDER REF: 3	H4R17U75
		17mm	5-0	1	VIOELT	75	TENDER REF: 96	H5R17U75
R20U		20mm	4-0	1.5	VIOELT	75	TENDER REF: 95	H4R20U75
R26U	Л		2-0	3	VIOELT	75	TENDER REF: 93	H2R26U75
		26mm	3-0	2	VIOLET	75	TENDER REF: 2	H3R26U75
R40U		40mm	1	4	VIOLET	90	TENDER REF: 1	H1R40U90
		40mm						

1/4 Circle	1/4 Circle Conventional Spatula Needles						I	Micro Needles
	Needle		(USP)	(Metric)	Suture Color	Length (cm)	Other Information	LINXobere Code
Z8-90Q-200-D	Length: 8mm	Radius: 5.1mm						
	Curvature: 90°	Chord: 7.21mm	6-0	0.7	VIOELT	45	TENDER REF: 97	H6Z8Q45D
8mm		Diameter: 200µ						





RAPID VIPRONE 910 (Polyglactin 910 for faster absorption)

SUTURE

Braided Description: For easy handling and secure knot tying.

> Coated For smooth passage through tissue and easy

> > knot tie down.

Synthetic For minimal tissue reaction.

Absorbable By hydrolysis. Essentially complete in 42 days

Tensile strength: Post implantation Approximate % original

strength remaining

5 days 50% 10-14 days **n**%

Rapid Viprone 910 suture typically falls off 7-10 days postoperative or can be wiped off subsequently with gauze. Normally the removal of the suture is not required.

Color: Violet or undyed.

8-0 to 1 (USP). Supplied as needled sutures and ligatures. Range:

INDICATIONS: Rapid Viprone (910) is intended for use in soft tissue approximation where

only short term wound support is required and where the rapid absorption

of the suture would be beneficial. Typical areas of use include:

• Skin closure, cuticular or subcuticular

Episiotomies

• Closure of oral mucosa

• Conjunctival sutures in ophthalmic surgery

Full details in the Instruction for Use included in every package.



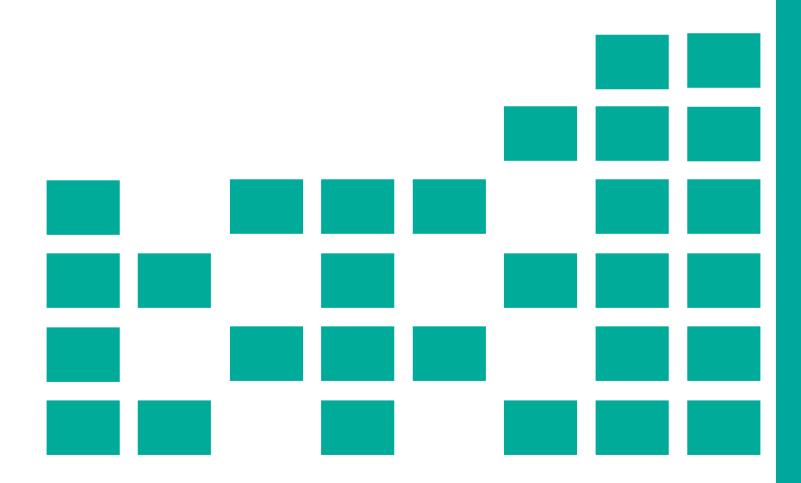


For tender: Thai Nguyen Hospital

RAPID VIPRONE 910 (Polyglactin 910 for faster absorption)

3/8 Circle			Taper Poir	nt Needles		O		
	Needle		(USP)	(Metric)	Suture Color	Length (cm)	Other Information	LINXobere Code
R16C		16mm	2-0	3	UNDYED	75	TENDER REF: 4	R2R16C75

1/2 Circle	Taper Cut	ting Needle	S	\bigcirc		
Needle	(USP)	(Metric)	Suture Color	Length (cm)	Other Information	LINXobere Code
T36U 36mm	2-0	3	VIOELT	90	TENDER REF: 91	R2T36U90





PDO (Polydioxanone)

SUTURE

Description: Monofilament For smooth passage through tissue.

Synthetic For minimal tissue reaction.

Absorbable By hydrolysis. Essentially complete in 182-238 days.

Tensile strength: Post implantation Approximate % of original strength remaining

14 days 80% (3-0 and larger)

60% (4-0 and smaller)

28 days 70% (3-0 and larger)

40% (4-0 and smaller)

42 days 60% (3-0 and larger) 28 days 35% (4-0 and smaller)

Color: Violet or undyed.

Range: 6-0 to 1 (USP). Supplied as needled sutures and ligatures.

INDICATIONS: PDO* sutures are intended for use in general

soft tissue approximation, including in pediatric cardiovascular tissue, and in ophthalmic surgery (other than contact with cornea and sclera). PDO* sutures are particularly useful where the combination of absorbable suture and extended wound support is desirable. Typical areas of use include:

- Abdominal wall closure
- Intestinal anastomoses
- Ligament and tendon repair

Full details in the Instruction for Use included in every package.

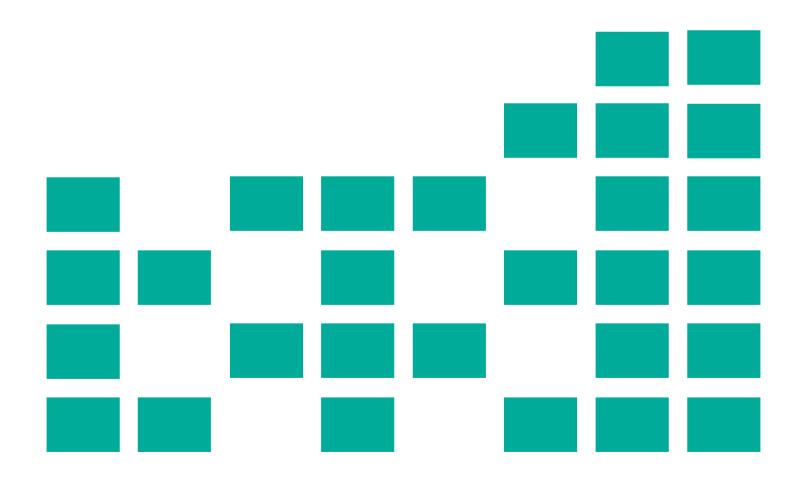




For tender: Thai Nguyen Hospital

1/2 Circle		Taper Poi	nt Needles		<u> </u>		
			(Metric)	Suture Color	Length (cm)	Other Information	LINXobere Code
R20U	20mm	5-0	1	VIOELT	75	TENDER REF: 89	D5R20U75

3/8 Circle		Taper Cutting Needles			\bigcirc		
				Suture Color			LINXobere Code
T13C-D	13mm	6-0	0.7	VIOELT	70	TENDER REF: 90	D6T13C70D





NYLON (Polyamide 6)

SUTURE

Description: Monofilament For smooth passage through tissue.

> For minimal tissue reaction. Synthetic

Non-Absorbable Provides prolonged tensile strength retention in tissue.

Color: Blue, black or clear

11-0 to 2 (USP). Supplied as needled sutures armed Range:

with, for example, PRIMIPASS* needles

INDICATIONS: NYLON* (Blue, black and clear) sutures are intended for use in general soft

> tissue approximation and/or ligation, including use in cardiovascular, ophthalmic, microsurgical and neurosurgical procedures. Blue NYLON*

sutures are intended for use in skin closure.

Typical areas of use include:

Cuticular sutures

Nerve adaptation

Ophthalmology

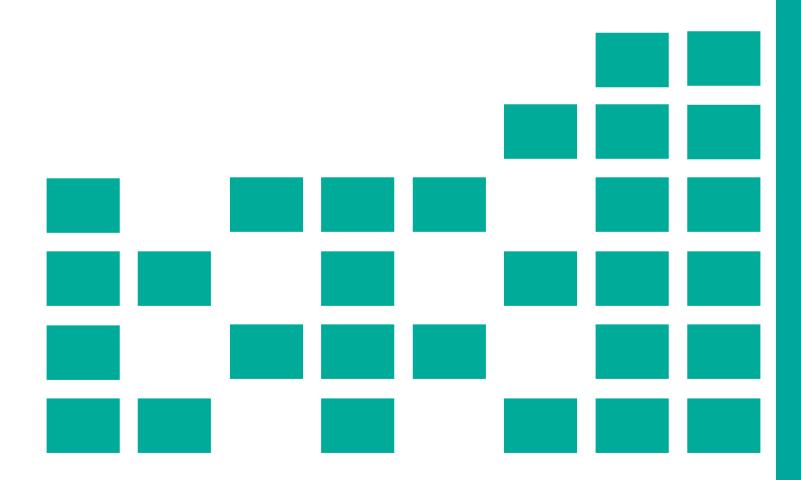
Full details in the Instruction for Use included in every package.





3/8 Circle			Reverse Cutting Needles					
	Needle		(USP)	(Metric)	Suture Color	Length (cm)	Other Information	LINXobere Code
C19C			4-0	1.5	BLACK	50	TENDER REF: 7	N4C19C50
		19mm	4-0	1.5	BLACK	75	TENDER REF: 83	N4C19C75
C25C			3-0	2	BLACK	75	TENDER REF: 6	N3C25C75
		25mm	2-0	3	BLUE	75	TENDER REF: 5	N2C25C75B

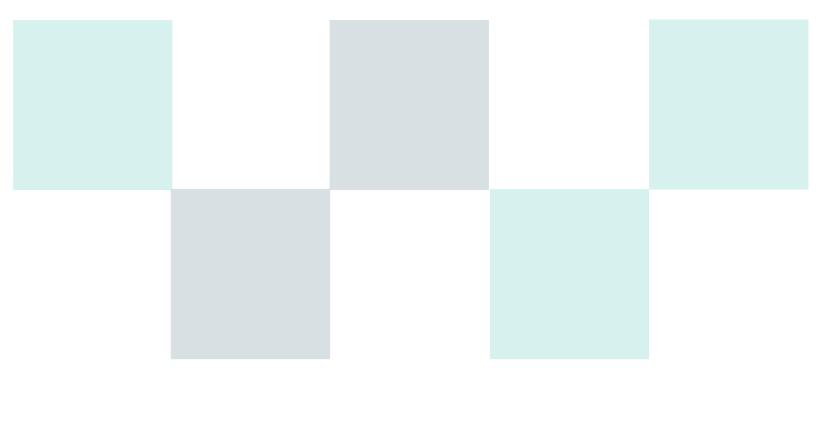
3/8 Circle	Taper Cutting Needles			\bigcirc		
Needle	(USP)	(Metric)	Suture Color	Length (cm)	Other Information	LINXobere Code
T30C 30mm	1	4	BLACK	75	TENDER REF: 100	N1T30C75





Additional Information				
Code	Material	Needle Material	Knot pull Strength (Kgf)	Packing
H1R40U90	Polyglactin 910	300 Series are composed of 18% chromium and 8% / 10% nickel	5.08	Each Suture inside a PEEL OPEN high Medical Grade Aluminum Foil 12 of such inside a box of 12 coverded with Plastic
H3R26U75	Polyglactin 910	300 Series are composed of 18% chromium and 8% / 10% nickel	1.77	Each Suture inside a PEEL OPEN high Medical Grade Aluminum Foil 12 of such inside a box of 12 coverded with Plastic
H4R17U75	Polyglactin 910	300 Series are composed of 18% chromium and 8% / 10% nickel	1.77	Each Suture inside a PEEL OPEN high Medical Grade Aluminum Foil 12 of such inside a box of 12 coverded with Plastic
R2R36U90	Polyglactin 910	300 Series are composed of 18% chromium and 8% / 10% nickel	2.68	Each Suture inside a PEEL OPEN high Medical Grade Aluminum Foil 12 of such inside a box of 12 coverded with Plastic
N2C25C75B	POLYAMIDE	300 Series are composed of 18% chromium and 8% / 10% nickel	1.44	Each suture inside a medical Paper (low memory 8 shape) which enfolded inside a Plastic and DuPont™ Tyvek® Pouch Peel Open Cover, 12 of such inside a box of 12 coverded with Plastic
N3C25C75	POLYAMIDE	300 Series are composed of 18% chromium and 8% / 10% nickel	2.04	Each suture inside a medical Paper (low memory 8 shape) which enfolded inside a Plastic and DuPont™ Tyvek® Pouch Peel Open Cover, 12 of such inside a box of 12 coverded with Plastic
N4C19C50	POLYAMIDE	300 Series are composed of 18% chromium and 8% / 10% nickel	0.6	Each suture inside a medical Paper (low memory 8 shape) which enfolded inside a Plastic and DuPont™ Tyvek® Pouch Peel Open Cover, 12 of such inside a box of 12 coverded with Plastic
G1R40U90	Polyglycolic Acid	300 Series are composed of 18% chromium and 8% / 10% nickel	5.9	Each Suture inside a PEEL OPEN high Medical Grade Aluminum Foil 12 of such inside a box of 12 coverded with Plastic
G2R26U70	Polyglycolic Acid	300 Series are composed of 18% chromium and 8% / 10% nickel	2.68	Each Suture inside a PEEL OPEN high Medical Grade Aluminum Foil 12 of such inside a box of 12 coverded with Plastic
G3R26U70	Polyglycolic Acid	300 Series are composed of 18% chromium and 8% / 10% nickel	1.77	Each Suture inside a PEEL OPEN high Medical Grade Aluminum Foil 12 of such inside a box of 12 coverded with Plastic
G4R22U70	Polyglycolic Acid	300 Series are composed of 18% chromium and 8% / 10% nickel	0.95	Each Suture inside a PEEL OPEN high Medical Grade Aluminum Foil 12 of such inside a box of 12 coverded with Plastic
G5R17U70	Polyglycolic Acid	300 Series are composed of 18% chromium and 8% / 10% nickel	0.68	Each Suture inside a PEEL OPEN high Medical Grade Aluminum Foil 12 of such inside a box of 12 coverded with Plastic
K2C37U90	Polyglycolic Acid	300 Series are composed of 18% chromium and 8% / 10% nickel	0.95	Each Suture inside a PEEL OPEN high Medical Grade Aluminum Foil 12 of such inside a box of 12 coverded with Plastic









LINXobere Medizintechnik GmbH

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