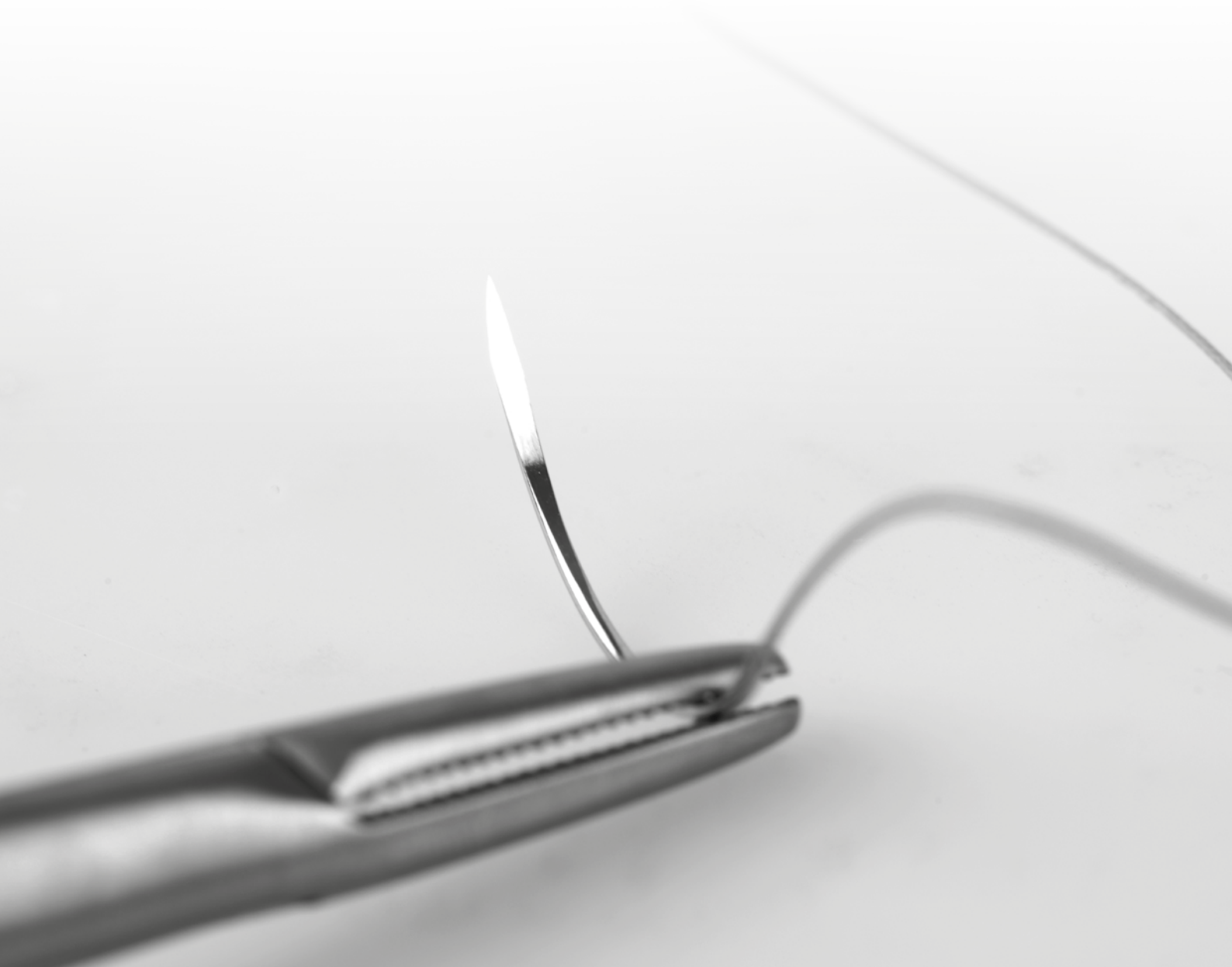




KRUUSE Suture Catalogue

5th edition



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**For more information visit:
www.kruuse.com**



KRUUSE sutures - new and improved quality

KRUUSE is proud to present our new and improved assortment of high quality sutures. We hope you will enjoy your suturing work with our new KRUUSE sutures.

The needles are high quality stainless steel from a highly recommended supplier. The supplier of the suture materials is also highly recommended and known for excellent quality. Both suppliers deliver needles/sutures to the humane markets.

Both sutures and needles are manufactured to meet our high standard of inspection and control, as KRUUSE is committed to our "Code of Conduct". This applies to Quality/Environmental/Occupational Health and Safety Policy - Code of Conduct.

Regarding quality and environment, KRUUSE aspires to use quality-orientated and environmentally certified suppliers, or alternatively, suppliers that are otherwise able to substantiate implementation of environmental management systems or other environmental-enhancing measures.

Code of conduct is valid for both supplier and sub-supplier if any.

Key points from the Environmental Policy specify, among other things, that the supplier must:

- Aim to reduce over-packaging
- Aim to use recycled board for packaging
- Aim to ship all KRUUSE deliveries in joint consignments in order to promote efficient, fuel-saving transportation

Regarding Occupational Health and Safety, KRUUSE Code of Conduct specifies, among other things, that our suppliers:

- Must on demand procure documentation for compliance with health and safety regulations and/or other relevant legislation
- Must aspire to ensure a healthy and safe working environment for his/her employees in terms of preventing accidents or circumstances that are detrimental to the health – caused by/in connection with/occurring during working hours or as a result of the work process/functions
- Are to respect that profiting from/exploitation of vulnerable groups such as children or illegal immigrants is unacceptable
- Must comply with (and act in accordance with) all international human rights conventions and standards on employment of minors etc. – and for Denmark, according to Danish legislation standards on employment of minors to carry out certain tasks, not precluding employment carried out in countries outside Denmark – during manufacture of products delivered to KRUUSE.

All of the above specifications are part of our KRUUSE company policy – Code of Conduct and secure the end-user as well.

Enjoy your work with KRUUSE sutures!



NEW, IMPROVED SUTURE RANGE FROM KRUUSE

The new KRUUSE suture range has been tested and approved by Danish and foreign vets alike. All suppliers are to comply with KRUUSE's code of ethics, eg with regard to quality, work environment and the environment in general.

By Erik Kjærsgaard Christensen

JØRGEN KRUUSE A/S is – at this very moment in time – coming forward with a new, extensive range of suture.

- "We have endeavoured to compile a range which, in every aspect, complies with our customers' demands and expectations. Consequently, we have put sutures and needles through extensive testing processes in which both Danish and foreign vets have been involved", states Product Manager Rikke Jarlvist from KRUUSE

- "The product range stems from a new supplier, which is why we have strongly prioritised a "thumbs-up" from professional vets prior to launching sales", she continues

A marked improvement

The outcome is a range of suture, which presents a marked improvement compared to the existing range. All sutures are individually wrapped in sterile peel packs. These, in turn, are then packed in boxes of 18 units per box – to enable the respective clinic or hospital to store a wider range of sutures locally.

Furthermore, displays for the suture boxes are offered in a handsome white or transparent design – each with a capacity for 12 sutures. These displays can function as table stands or as wall-mounted units.



KRUUSE Suture Catalogue

User-friendly catalogue

- "We have also attached great importance to the fact that it must be quick and easy for our customers to form a general idea of this extensive range of sutures, and we have put a lot of work into the design and composition of the catalogue on our website: www.kruuse.com – ie to make it practical and logical. For instance, all needles are depicted as full size images in order to quickly find the relevant needle", Rikke Jarkvist explains. She carries on by saying that KRUUSE's code of ethics (Code of Conduct) forms the basis of the agreement with the new supplier.













- "As a rule, we strive to use certified suppliers when it comes to quality and environmental issues", says the product manager and she further expands:

Supplier requirements

- "One of our requirements, for instance in terms of packaging, is for the supplier to utilise reusable cardboard. Furthermore, we demand that packaging must be PVC-free".

KRUUSE's suppliers are also required to adhere to relevant legislation in the country of operation pertaining to work environment issues in force at the time in question.

"If we are informed of incidents of forced labour or if the work carried out results in physical or psychological mistreatment of employees – this will be perceived as a breach of contract on the supplier's or subcontractor's part. Similarly, discrimination or abuse of any kind of employees will not be tolerated either", states Rikke Jarkvist.

| | | Chemical composition | Physical features | Absorption time |
|------------------------|---|--|--|-----------------|
| Absorbable sutures |  KRUUSE Sacryl Rapid | Polyglactine 910 | Multifilament, coated | Short |
| |  KRUUSE Catgut | Natural purified collagen | Multifilament with a monofilament appearance | Short |
| |  KRUUSE Monofast | Polyglycolide | Monofilament | Medium |
| |  KRUUSE Sacryl | Polyglactine 910 | Multifilament, coated | Medium |
| |  KRUUSE Sacryl Plus, antibacterial | Polyglactine 910 | Multifilament, coated | Medium |
| |  KRUUSE PGA | Polyglycolic acid | Multifilament, coated | Medium |
| |  KRUUSE Chromic Catgut | Chrome-treated natural purified collagen | Multifilament with a monofilament appearance | Medium |
| Non-absorbable sutures |  KRUUSE PD-X | Polydioxanone | Monofilament | Long |
| |  KRUUSE Promilene | Polypropylene | Monofilament | |
| |  KRUUSE Krupramid | Polyamide | Pseudo-monofilament | |
| |  KRUUSE Nylon | Polyamide | Monofilament | |
| |  KRUUSE Linen | Linen based on cellulose | Multifilament, braided and coated | |

Suture materials for veterinary surgery

| | | Chemical composition | Physical features | Absorption time |
|-------------------------------|-----------------------------------|--|--|-----------------|
| Absorbable sutures | KRUUSE Sacryl Rapid | Polyglactine 910 | Multifilament, coated | Short |
| | KRUUSE Catgut | Natural purified collagen | Multifilament with a monofilament appearance | Short |
| | KRUUSE Monofast | Polyglycolide | Monofilament | Medium |
| | KRUUSE Sacryl | Polyglactine 910 | Multifilament, coated | Medium |
| | KRUUSE Sacryl Plus, antibacterial | Polyglactine 910 | Multifilament, coated | Medium |
| | KRUUSE PGA | Polyglycolic acid | Multifilament, coated | Medium |
| | KRUUSE Chromic Catgut | Chrome-treated natural purified collagen | Multifilament with a monofilament appearance | Medium |
| | KRUUSE PD-X | Polydioxanone | Monofilament | Long |
| | KRUUSE PD-X PLUS | Polydioxanone | Monofilament | Long |
| Non-absorbable sutures | KRUUSE Promilene | Polypropylene | Monofilament | |
| | KRUUSE Krupramid | Polyamide | Pseudo-monofilament | |
| | KRUUSE Nylon | Polyamide | Monofilament | |
| | KRUUSE Silk | Silk | Multifilament, braided and coated | |
| | KRUUSE Dermafil | Polyester | Multifilament, braided and coated | |
| | KRUUSE Linen | Linen based on cellulose | Multifilament, braided and coated | |

KRUUSE suture display

We aim to make handling and usage of our KRUUSE sutures as user friendly as possible. We have therefore designed a practical display for the KRUUSE sutures.

The suture display has an attractive design that fits into most clinics and hospitals.

It is intended to be used either as a table top rack or it can be wall mounted in your clinic. Mobile vets may choose to have the display in their practice vehicle.

Furthermore you have the possibility to expand the display either in height or length by adding another display section.

Please notice that we have designed the display with a slight protuberance/rise at the front. This ensures stable and accurate placement of the suture dispenser box during handling.

Enjoy your work with KRUUSE sutures and display!



Cat. No 150902 - White

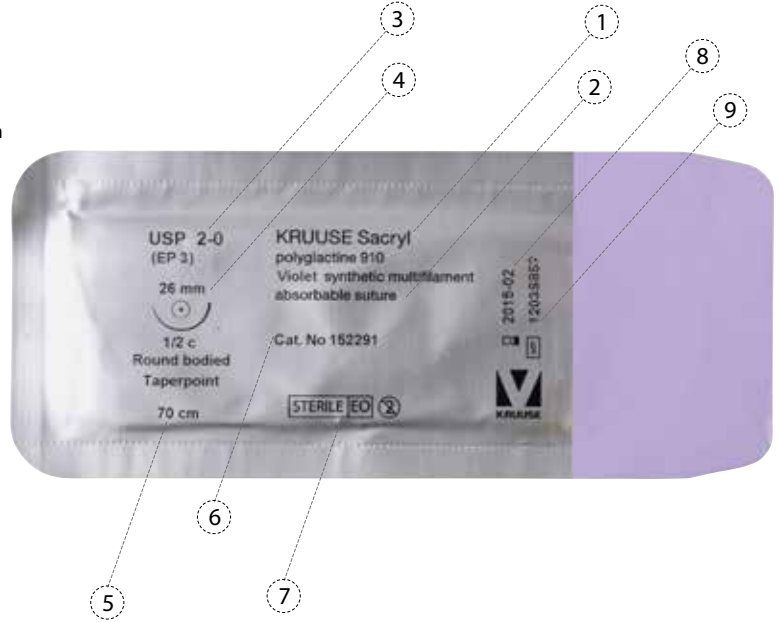


Cat. No 150901 - Transparent

Packaging

Package labelling

- 1) Product name
- 2) Chemical composition and suture description
- 3) Suture size
- 4) Needle characteristics
- 5) Suture length
- 6) Catalogue number
- 7) Sterilization method (EO) = do not re-sterilize and use again
- 8) Expiry date: year and month
- 9) Batch number
- 10) Box of 18 peel packs



Peel Pack



User friendly dispensing of end opening peel packs



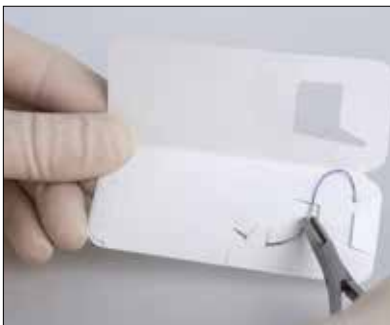
Easy to identify suture and needle



Easy opening of the peel pack



Sterile inner card with clear product information



Direct access to needle on the inner card



Pharmacopoeia

American and European Pharmacopoeia

The European Pharmacopoeia (EP) uses the metric system for classifying suture size, whereas the American Pharmacopoeia classifies sutures in USP. In the chart below you will find both USP and EP as well as the suture diameter range in mm.

Please note that Catgut and Chromic Catgut have different USPs than the rest of the sutures. These follow the international standards in Catgut sutures.

| American Pharmacopoeia USP | European Pharmacopoeia EP | Suture diameter | American Pharmacopoeia USP |
|---------------------------------------|---------------------------------------|-----------------|----------------------------|
| Absorbable and non-absorbable sutures | Absorbable and non-absorbable sutures | mm range | Catgut |
| USP size | EP/metric size | mm | USP size |
| 8-0 | 0.4 | 0.04-0.049 | |
| 7-0 | 0.5 | 0.05-0.069 | |
| 6-0 | 0.7 | 0.07-0.099 | |
| 5-0 | 1 | 0.1-0.149 | |
| 4-0 | 1.5 | 0.15-0.199 | 5-0 |
| 3-0 | 2 | 0.2-0.249 | 4-0 |
| 2-0 | 3 | 0.25-0.349 | 3-0 |
| 0 | 3.5 | 0.35-0.399 | 2-0 |
| 1 | 4 | 0.4-0.499 | 0 |
| 2 | 5 | 0.5-0.599 | 1 |
| 3+4 | 6 | 0.6-0.699 | 2 |
| 5 | 7 | 0.7-0.799 | 3 |
| 6 | 8 | 0.8-0.899 | 4 |
| 7 | 9 | 0.9-0.999 | 5 |
| 8 | 10 | 1.0-1.099 | 6 |

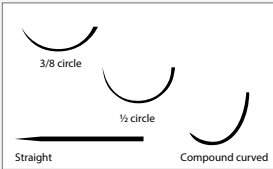


Needles

All needles are high quality stainless steel from a highly recommended Japanese supplier. We recommend use of needles with welded suture to minimize wound trauma due to double thread.

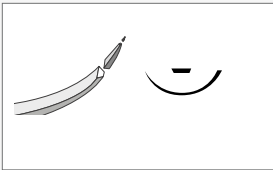
Needle shape

The shape of the needle is either 3/8 circle, 1/2 circle, compound curve or straight. Most of our 1/2 circle needles are round bodied and most of the 3/8 circle needles are reverse cutting.



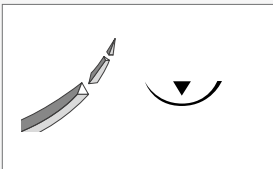
Micropoint spatula needle

This type of needle is a special needle for ophthalmic surgery. The needle is flat and thin and has an extremely sharp cutting edge, which makes it suitable for penetration between the layers of scleral or corneal tissue.



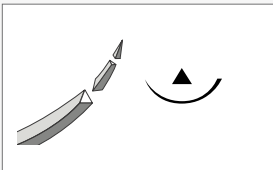
Reverse cutting needle

Reverse cutting needles have a triangular shape in cross section, with the apex cutting edge on the outside of the needle. These features facilitate tissue penetration.



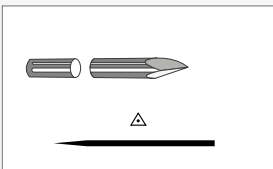
Conventional cutting needle

The conventional cutting needle has a triangular shape in cross section, and it cuts with the inner curve of the needle.



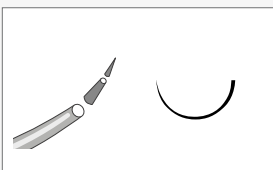
Trocar point needle

All KRUUSE trocar point needles are straight. The trocar point has a very sharp tip, and this type of needle is often used in the skin.



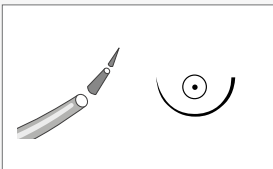
Round bodied needles

Round bodied needles are commonly used in soft tissue where separation of tissue fibers is preferred, rather than cutting the fibers apart. This would be preferable when suturing e.g. intestine, where the tissue closes tightly around the suture after passage of the needle.



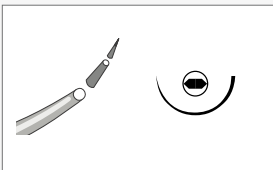
Round bodied taperpoint needle

Taperpoint is the most common tip of round bodied needles. The taperpoint provides easy and tissue-preserving penetration by the needle.



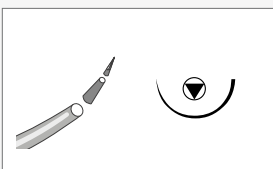
Round -bodied taperpoint extra needles

This round bodied taper point needle differs slightly from other round bodied needles, as the cross section is oval instead of round. The outermost part of the tip (less than 0.5 mm) is drilled on three sides, i.e. working with this type of needle is a matter of preference, as it may appear to be sharper than traditional round-bodied taper point needle.



Round bodied tapercut needle

A round bodied needle with a cutting point; this needle gives good and easy penetration in tough tissues with little tissue trauma.



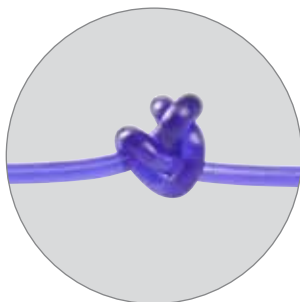
Suture range for veterinary surgery

| | | Chemical composition | Physical features | Colour |
|---------------------------|-----------------------------------|--|--|-------------------|
| Absorbable sutures | KRUUSE Sacryl Rapid | Polyglactine 910 | Multifilament, coated | Undyed |
| | KRUUSE Catgut | Natural purified collagen | Multifilament with a monofilament appearance | Natural |
| | KRUUSE Monofast | Polyglycolide | Monofilament | Violet and undyed |
| | KRUUSE Sacryl | Polyglactine 910 | Multifilament, coated | Violet and undyed |
| | KRUUSE Sacryl Plus, antibacterial | Polyglactine 910 | Multifilament, coated | Violet and undyed |
| | KRUUSE PGA | Polyglycolic acid | Multifilament, coated | Violet |
| | KRUUSE Chromic Catgut | Chrome-treated natural purified collagen | Multifilament with a monofilament appearance | Natural |
| | KRUUSE PD-X | Polydioxanone | Monofilament | Violet |
| | KRUUSE PD-X PLUS | Polydioxanone | Monofilament | Violet |

| | | | | |
|-------------------------------|------------------|--------------------------|-----------------------------------|-----------------|
| Non-absorbable sutures | KRUUSE Promilene | Polypropylene | Monofilament | Blue |
| | KRUUSE Krupramid | Polyamide | Pseudo-monofilament | White and black |
| | KRUUSE Nylon | Polyamide | Monofilament | Blue |
| | KRUUSE Silk | Silk | Multifilament, braided and coated | Black |
| | KRUUSE Dermafil | Polyester | Multifilament, braided and coated | Green |
| | KRUUSE Linen | Linen based on cellulose | Multifilament, braided and coated | Whitish brown |



Multifilament, braided



Monofilament



Pseudo-monofilament



Twisted multifilament with a monofilament appearance

KRUUSE Suture Catalogue









| Remaining tensile strength in % of strength at time of surgery | | | | | |
|--|---------|---|---------|--------------------------|--------------------|
| 1 week | 2 weeks | 3 weeks | 4 weeks | Complete mass absorption | Packaging |
| 50% (9 days) | | 0% (17-21 Days) | | 45 days | Peel pack |
| 50 % | | | | 63 days | Cassette |
| 60 % | 25 % | | 0 % | 90-120 days | Peel pack |
| | 70 % | 50 % (6-0 and larger) 40 % (7-0 and smaller) | 25 % | 56-63 days | Peel pack |
| | 70 % | 50 % | 25 % | 56-63 days | Peel pack |
| | 65 % | 35 % | | 60-90 days | Peel pack/cassette |
| | 50 % | | | 90 days | Peel pack/cassette |
| | 75 % | 60 % | | 180-210 days | Peel pack |
| | 75 % | 60 % | | 180-210 days | Peel pack |

| | |
|--|--------------------|
| | Peel pack |
| | Peel pack/cassette |
| | Peel pack |
| | Peel pack/cassette |
| | Cassette |
| | Cassette |

KRUUSE Suture Catalogue

| Indications |  KRUUSE Sacryl Rapid |  KRUUSE Catgut |  KRUUSE Monofast |  KRUUSE Sacryl |  KRUUSE Sacryl Plus |  KRUUSE PGA |
|--------------------------|---|---|---|---|--|--|
| Abdominal wall | | | | x | | x |
| Cardiovascular surgery | | | | | | |
| Conjunctiva | x | | | | | |
| Dental surgery | | | | | | |
| Episiotomies | x | | | | | |
| Fascia | | | | x | x | x |
| GI surgery | | | x | x | x | x |
| Gynaecology | | | | x | | x |
| Hernias | | | | | | |
| Intracutaneous | | | x | | | |
| Joint capsules | | | | x | x | |
| Ligaments | | x | | | | |
| Ligation ovarian vessels | | x | | | | |
| Muscles | | | | x | x | x |
| Neuro surgery | | | | | | |
| Ophthalmic surgery | | | | x | | x |
| Oral surgery | x | | x | | | |
| Orthopedics | | | | | | |
| Skin closure | | | | | | |
| Subcutaneous | x | x | x | x | x | x |
| Tendon repair | | | | | | |
| Tonsillectomy | | | | | | |
| Urological surgery | | | x | | | |
| Uterus | | x | | x | x | x |
| Vascular surgery | | | | x | x | |

KRUUSE Suture Catalogue

|  KRUUSE Chromic Catgut |  KRUUSE PD-X |  KRUUSE Promilene |  KRUUSE Krupramid |  KRUUSE Nylon |  KRUUSE Silk |  KRUUSE Dermafil |  KRUUSE Linen |
|--|---|--|--|--|--|---|--|
| | x | | | | | | |
| | | x | x | x | x | | |
| | | | | | x | | |
| | x | | | | | | |
| | x | | | | | | |
| | x | | | | | | x |
| | | | | | | | |
| x | x | | | | | | |
| x | | | | | | | |
| | | x | x | x | x | | |
| | | x | x | x | x | | |
| | | | | | x | | |
| | x | | | | | | |
| | | x | x | x | | x | |
| x | | | | | | | |
| | x | | | | | | |
| | | | | | | | x |
| | | | | | | | |
| x | | | | | | | |
| | x | x | x | x | x | | |



KRUUSE Sacryl Rapid

Multifilament, braided: For secure knot tying, high flexibility and easy handling

Coated: For easy knot tying and smooth passage through tissue

Irradiation: By gamma irradiation to accommodate rapid absorption

Absorbable: By hydrolysis

KRUUSE Sacryl Rapid is a braided and coated multifilament synthetic suture composed of Polyglactin 910.

KRUUSE Sacryl Rapid meets all the requirements established by the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USP) for Synthetic Absorbable Surgical Sutures.

Due to the rapid loss of its breaking strength KRUUSE Sacryl Rapid should not be used where extended approximation of tissue under stress is required, such as cardiovascular tissue or muscle, or where wound support beyond 7 days is required.

The characteristics of rapid loss of strength are achieved by use of gamma irradiation.

Absorption: Absorbable:

- Complete mass absorption in approximately 45 days
- Absorption by hydrolysis

Chemical composition:

- KRUUSE Sacryl Rapid is composed of Polyglactin 910 (copolymer of 90% Glycolide and 10% L-lactide)

Tensile Strength:

- 55 % remains after 5 days
- 0 % remains after 10-14 days
- Complete mass absorption in approximately 45 days

Colour:

- Undyed

Indications:

KRUUSE Sacryl Rapid is suitable for use in soft tissue approximation where short term wound support and rapid absorption of the suture is indicated, including:

- Superficial skin closure, both subcuticular and cuticular
- Suturing of conjunctiva in ophthalmic surgery
- Suturing of oral cavity mucosa
- Episiotomies

Contraindications:

- Where longer or permanent support is required

Range:

- USP 5-0 to 3-0
- EP 1 to 2

Sterilization method:

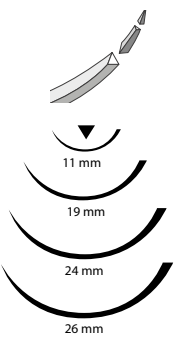

- EO

Packing:

- Boxes of 18 peel packs

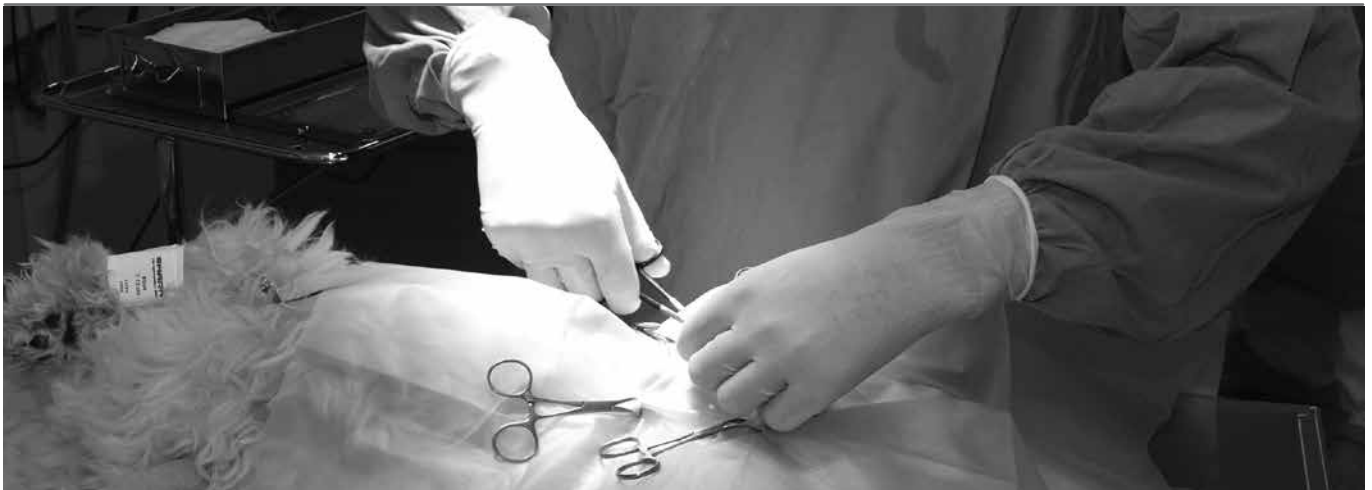


KRUUSE Sacryl Rapid

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|---|------------------|-----|-----|--------------|---------------|----------------|---------|
| 3/8 circle, reverse cutting  | 11 | 5-0 | 1 | 45 | Undyed | 18 | 152356 |
| | 19 | 5-0 | 1 | 45 | Undyed | 18 | 152352 |
| | 19 | 4-0 | 1.5 | 45 | Undyed | 18 | 152351 |
| | 19 | 3-0 | 2 | 70 | Undyed | 18 | 152354 |
| | 24 | 3-0 | 2 | 70 | Undyed | 18 | 152350 |
| | 26 | 2-0 | 3 | 70 | Undyed | 18 | 152357 |
| 3/8 circle, conventional cutting  | 16 | 4-0 | 1.5 | 70 | Undyed | 18 | 152353 |
| | 16 | 3-0 | 2 | 70 | Undyed | 18 | 152355 |

For more information visit:
www.kruuse.com





KRUUSE Monofast

Monofilament: For smooth passage through tissue and high tissue compatibility

Synthetic: Minimal tissue reaction

Absorbable: By hydrolysis

KRUUSE Monofast is a monofilament, synthetic suture with a smooth surface that gives minimal tissue reaction and decreased incidence of infection and trauma.

KRUUSE Monofast meets all the requirements established by the European Pharmacopoeia (EP) for Synthetic Absorbable Monofilament Surgical Sutures.

Absorption: Absorbable:

- Complete mass absorption in approximately 90-120 days
- Absorption by hydrolysis

Chemical composition:

- Monofast is fast absorbable synthetic monofilament suture material composed of Polyglycolide-poly (ε-caprolactone) copolymer (PGCL).

Tensile Strength:

- 60 % remains after 7 days
- 25 % remains after 14 days
- 0 % remains after 28 days
- Complete mass absorption in approximately 90-120 days

Colour:

- Violet and undyed

Indications:

KRUUSE Monofast is commonly used in soft tissues and ligation where absorbable sutures are indicated, including:

- Subcutaneous or intracutaneous suturing
- GI-surgery
- Urological surgery
- Suturing of oral cavity mucosa

Contraindications:

- Where prolonged support from suturing is required

Range:

- USP 5-0 to 1
- EP 1 to 4

Sterilization method:

- EO

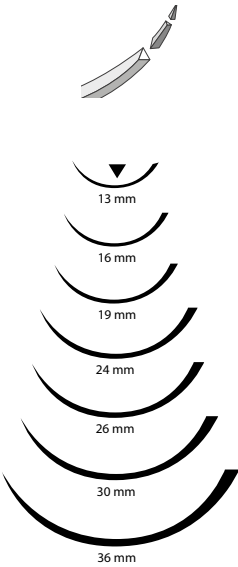
Packing:

- Boxes of 18 peel packs



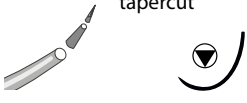
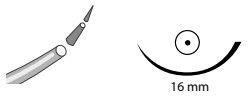
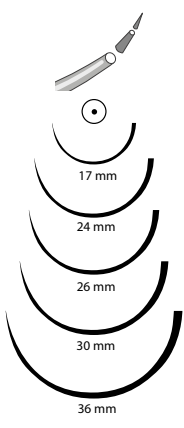
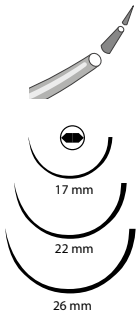
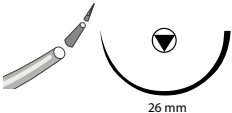
KRUUSE Suture Catalogue

KRUUSE Monofast

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|--|------------------|-----|-----|--------------|---------------|----------------|---------|
| <p>3/8 circle, reverse cutting</p>  | 13 | 5-0 | 1 | 45 | Undyed | 18 | 152237 |
| | 13 | 5-0 | 1 | 45 | Violet | 18 | 152238 |
| | 13 | 5-0 | 1 | 70 | Violet | 18 | 152239 |
| | 13 | 4-0 | 1.5 | 45 | Undyed | 18 | 152235 |
| | 13 | 4-0 | 1.5 | 45 | Violet | 18 | 152240 |
| | 16 | 4-0 | 1.5 | 45 | Violet | 18 | 152241 |
| | 16 | 4-0 | 1.5 | 45 | Undyed | 18 | 152216 |
| | 19 | 4-0 | 1.5 | 45 | Undyed | 18 | 152233 |
| | 19 | 4-0 | 1.5 | 70 | Undyed | 18 | 152234 |
| | 19 | 4-0 | 1.5 | 70 | Violet | 18 | 152242 |
| | 19 | 4-0 | 1.5 | 90 | Violet | 18 | 152217 |
| | 19 | 3-0 | 2 | 45 | Undyed | 18 | 152229 |
| | 19 | 3-0 | 2 | 45 | Violet | 18 | 152246 |
| | 19 | 3-0 | 2 | 70 | Undyed | 18 | 152230 |
| | 19 | 3-0 | 2 | 70 | Violet | 18 | 152243 |
| | 24 | 3-0 | 2 | 70 | Undyed | 18 | 152231 |
| | 24 | 3-0 | 2 | 70 | Violet | 18 | 152247 |
| | 24 | 3-0 | 2 | 90 | Violet | 18 | 152218 |
| | 24 | 2-0 | 3 | 70 | Undyed | 18 | 152226 |
| | 24 | 2-0 | 3 | 70 | Violet | 18 | 152244 |
| | 24 | 2-0 | 3 | 90 | Violet | 18 | 152219 |
| | 26 | 3-0 | 2 | 70 | Violet | 18 | 152228 |
| | 26 | 2-0 | 3 | 70 | Undyed | 18 | 152211 |
| | 26 | 2-0 | 3 | 70 | Violet | 18 | 152225 |
| | 26 | 0 | 3.5 | 70 | Violet | 18 | 152220 |
| | 30 | 0 | 3.5 | 70 | Violet | 18 | 152222 |
| | 36 | 1 | 4 | 70 | Violet | 18 | 152223 |

KRUUSE Suture Catalogue

KRUUSE Monofast

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|---|------------------|-----|-----|--------------|---------------|----------------|---------|
| Compound curve, round bodied, tapercut  | 13 | 5-0 | 1 | 45 | Undyed | 18 | 152236 |
| 3/8 circle, round bodied, taperpoint  | 16 | 4-0 | 1.5 | 70 | Violet | 18 | 152101 |
| 1/2 circle, round bodied, taperpoint  | 17 | 4-0 | 1.5 | 70 | Violet | 18 | 152248 |
| | 24 | 4-0 | 1.5 | 70 | Undyed | 18 | 152232 |
| | 26 | 2-0 | 3 | 70 | Violet | 18 | 152224 |
| | 26 | 3-0 | 2 | 70 | Violet | 18 | 152227 |
| | 30 | 0 | 3.5 | 70 | Violet | 18 | 152221 |
| | 36 | 1 | 4 | 70 | Violet | 18 | 152245 |
| 1/2 circle, taperpoint extra  | 17 | 3-0 | 2 | 70 | Violet | 18 | 152213 |
| | 22 | 4-0 | 1.5 | 70 | Violet | 18 | 152102 |
| | 22 | 3-0 | 2 | 70 | Violet | 18 | 152100 |
| | 26 | 3-0 | 2 | 70 | Violet | 18 | 152215 |
| | 26 | 2-0 | 3 | 70 | Violet | 18 | 152212 |
| 1/2 circle, round bodied, tapercut  | 26 | 3-0 | 2 | 70 | Undyed | 18 | 152214 |

For more information visit:
www.kruise.com





KRUUSE Sacryl

Multifilament, braided: For secure knot tying and easy handling

Synthetic: Minimal tissue reaction

Coated: For easy knot tying and smooth passage through tissue

Absorbable: By hydrolysis

KRUUSE Sacryl is a braided and coated multifilament synthetic suture composed of Polyglactin 910.

Polyglactin 910 sutures are the most widely used braided and coated synthetic absorbable sutures in the world. On account of its superior properties, this suture has replaced catgut sutures in most applications. In use, KRUUSE Sacryl was found to be non-antigenic, eliciting only mild tissue reactivity during the absorption process.

Absorption: Absorbable:

- Complete mass absorption in approximately 56-63 days
- Absorption by hydrolysis

Chemical composition:

- KRUUSE Sacryl is composed of Polyglactin 910 (co-polymer of 90% Glycolide and 10% L-lactide)

Tensile Strength:

- 70 % remains after 14 days
- 50 % remains after 21 days (6-0 and larger)
- 40 % remains after 21 days (7-0 and smaller)
- 25 % remains after 28 days
- Complete mass absorption in approximately 56-63 days

Colour:

- Violet and undyed

Indications:

KRUUSE Sacryl sutures are indicated for soft tissue approximation and ligation, where absorbable sutures are indicated, including:

- Suturing of subcutaneous tissue
- Fascia
- Joint capsules
- Muscles
- Uterus and GI-surgery
- Vascular surgery
- Ophthalmic surgery

Contraindications:

- Where permanent support is required

Range:

- USP 8-0 to 2
- EP 0.4 to 5

Sterilization method:

- EO

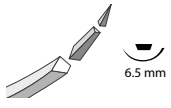
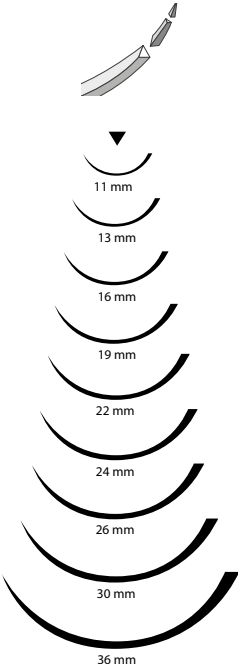
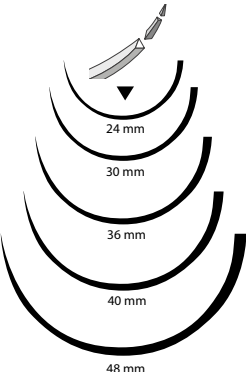
Packing:

- Boxes of 18 peel packs

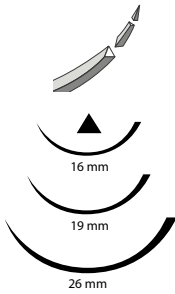
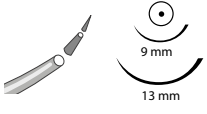
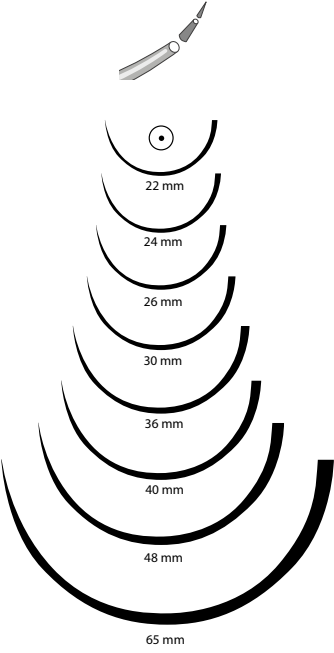
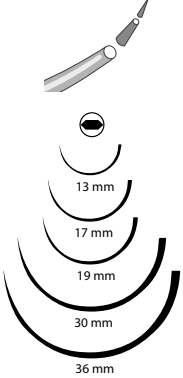


KRUUSE Suture Catalogue


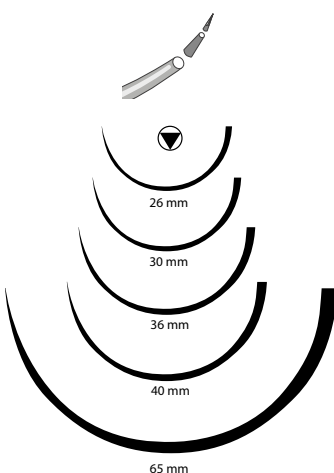
KRUUSE Sacryl

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|--|---|-----|-----|--------------|---------------|----------------|---------|
| 3/8 circle, micropoint spatula  | 6.5 | 8-0 | 0.4 | 30 | Violet | 18 | 152314 |
| 3/8 circle, reverse cutting  | 11 | 6-0 | 0.7 | 45 | Undyed | 18 | 152551 |
| | 13 | 6-0 | 0.7 | 45 | Undyed | 18 | 152550 |
| | 13 | 6-0 | 0.7 | 45 | Violet | 18 | 152313 |
| | 16 | 6-0 | 0.7 | 45 | Violet | 18 | 152315 |
| | 16 | 6-0 | 0.7 | 70 | Violet | 18 | 152312 |
| | 16 | 5-0 | 1 | 45 | Violet | 18 | 152310 |
| | 19 | 5-0 | 1 | 45 | Violet | 18 | 152309 |
| | 19 | 4-0 | 1.5 | 45 | Violet | 18 | 152553 |
| | 19 | 4-0 | 1.5 | 70 | Violet | 18 | 152303 |
| | 19 | 3-0 | 2 | 45 | Violet | 18 | 152300 |
| | 19 | 3-0 | 2 | 70 | Violet | 18 | 152297 |
| | 22 | 6-0 | 0.7 | 45 | Violet | 18 | 152311 |
| | 22 | 5-0 | 1 | 45 | Violet | 18 | 152308 |
| | 24 | 4-0 | 1.5 | 70 | Violet | 18 | 152304 |
| | 24 | 3-0 | 3 | 70 | Violet | 18 | 152296 |
| | 24 | 2-0 | 3 | 70 | Violet | 18 | 152290 |
| | 26 | 2-0 | 3 | 70 | Undyed | 18 | 152565 |
| | 30 | 3-0 | 2 | 70 | Violet | 18 | 152301 |
| | 30 | 2-0 | 3 | 70 | Violet | 18 | 152294 |
| | 30 | 0 | 3.5 | 70 | Violet | 18 | 152280 |
| | 36 | 4-0 | 1.5 | 45 | Violet | 18 | 152306 |
| | 36 | 1 | 4 | 70 | Violet | 18 | 152286 |
| | 1/2 circle, reverse cutting  | 24 | 3-0 | 2 | 70 | Violet | 18 |
| 30 | | 2-0 | 3 | 70 | Violet | 18 | 152318 |
| 36 | | 2-0 | 3 | 70 | Violet | 18 | 152295 |
| 36 | | 0 | 3.5 | 70 | Violet | 18 | 152283 |
| 40 | | 0 | 3.5 | 70 | Violet | 18 | 152284 |
| 48 | | 0 | 3.5 | 70 | Violet | 18 | 152285 |
| 48 | | 1 | 4 | 70 | Violet | 18 | 152288 |
| 48 | | 2 | 5 | 90 | Violet | 18 | 152289 |

KRUUSE Sacryl

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|---|--|-----|-----|--------------|---------------|----------------|---------|
| 3/8 circle, conventional cutting  | 16 | 5-0 | 1 | 70 | Violet | 18 | 152552 |
| | 16 | 4-0 | 1.5 | 70 | Violet | 18 | 152555 |
| | 16 | 3-0 | 2 | 70 | Violet | 18 | 152561 |
| | 19 | 3-0 | 2 | 70 | Undyed | 18 | 152576 |
| | 26 | 3-0 | 2 | 70 | Undyed | 18 | 152560 |
| | 26 | 2-0 | 3 | 70 | Undyed | 18 | 152564 |
| 3/8 circle, round bodied, taperpoint  | 9 | 6-0 | 0.7 | 30 | Violet | 18 | 152575 |
| | 13 | 4-0 | 1.5 | 70 | Violet | 18 | 152573 |
| 1/2 circle, round bodied, taperpoint  | 22 | 3-0 | 2 | 70 | Violet | 18 | 152298 |
| | 24 | 4-0 | 1.5 | 70 | Violet | 18 | 152305 |
| | 26 | 3-0 | 2 | 70 | Violet | 18 | 152299 |
| | 26 | 2-0 | 3 | 70 | Violet | 18 | 152291 |
| | 30 | 2-0 | 3 | 70 | Violet | 18 | 152322 |
| | 30 | 0 | 3.5 | 70 | Violet | 18 | 152281 |
| | 36 | 2-0 | 3 | 70 | Violet | 18 | 152317 |
| | 36 | 2-0 | 3 | 45 | Violet | 18 | 152293 |
| | 36 | 0 | 3.5 | 70 | Violet | 18 | 152323 |
| | 36 | 1 | 4 | 70 | Violet | 18 | 152287 |
| | 40 | 1 | 4 | 90 | Violet | 18 | 152324 |
| | 48 | 2 | 5 | 90 | Violet | 18 | 152316 |
| | 65 | 2 | 5 | 120-loop | Violet | 18 | 152321 |
| | 1/2 circle, taperpoint extra  | 13 | 6-0 | 0.7 | 30 | Undyed | 18 |
| 17 | | 5-0 | 1 | 70 | Violet | 18 | 152572 |
| 17 | | 4-0 | 1.5 | 70 | Violet | 18 | 152557 |
| 19 | | 4-0 | 1.5 | 70 | Violet | 18 | 152554 |
| 30 | | 3-0 | 2 | 70 | Violet | 18 | 152563 |
| 30 | | 2-0 | 3 | 70 | Violet | 18 | 152566 |
| 36 | | 2-0 | 3 | 70 | Violet | 18 | 152567 |

KRUUSE Sacryl

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|--|------------------|-----|-----|--------------|---------------|----------------|---------|
| 3/8 circle, round bodied, tapercut  | 16 | 4-0 | 1.5 | 70 | Undyed | 18 | 152556 |
| | 16 | 3-0 | 2 | 70 | Undyed | 18 | 152562 |
| 1/2 circle, round bodied, tapercut  | 26 | 3-0 | 2 | 70 | Violet | 18 | 152558 |
| | 26 | 2-0 | 3 | 70 | Violet | 18 | 152326 |
| | 30 | 2-0 | 3 | 70 | Violet | 18 | 152327 |
| | 30 | 0 | 3.5 | 70 | Violet | 18 | 152569 |
| | 30 | 1 | 4 | 70 | Violet | 18 | 152570 |
| | 36 | 2-0 | 3 | 70 | Violet | 18 | 152568 |
| | 36 | 2-0 | 3 | 90 | Violet | 18 | 152574 |
| | 36 | 0 | 3.5 | 70 | Violet | 18 | 152328 |
| | 40 | 2-0 | 3 | 70 | Undyed | 18 | 152319 |
| | 40 | 0 | 3.5 | 70 | Undyed | 18 | 152320 |
| | 40 | 1 | 4 | 90 | Violet | 18 | 152329 |
| | 65 | 2 | 5 | 120-loop | Violet | 18 | 152325 |

KRUUSE Sacryl without needle

| USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|-----|-----|--------------|---------------|----------------|---------|
| 4-0 | 1.5 | 150 | Violet | 18 | 152370 |
| 3-0 | 2 | 150 | Violet | 18 | 152371 |
| 2-0 | 3 | 150 | Violet | 18 | 152372 |
| 0 | 3.5 | 150 | Violet | 18 | 152373 |
| 1 | 4 | 150 | Violet | 18 | 152374 |
| 2 | 5 | 150 | Violet | 18 | 152375 |



KRUUSE Sacryl Plus

Multifilament, braided: For secure knot tying and easy handling

Synthetic: Minimal tissue reaction

Coated: For easy knot tying and smooth passage through tissue

Antibacterial: To reduce incidence of infection, oedema and pain

Absorbable: By hydrolysis

KRUUSE Sacryl Plus is an antibacterial, absorbable, synthetic, braided and coated suture containing Chlorhexidine diacetate. Chlorhexidine diacetate is the antibacterial component.

KRUUSE Sacryl Plus, being an absorbable suture, should not be used where extended approximation of tissue under stress or tension is required and in patients with known allergic reactions to Chlorhexidine diacetate.

KRUUSE Sacryl Plus tested in vitro creates a zone of inhibition against the most common surgical site pathogens including Staphylococcus aureus.

Absorption: Absorbable:

- Complete mass absorption in approximately 56-63 days
- Absorption by hydrolysis

Chemical composition:

- KRUUSE Sacryl is composed of Polyglactin 910 (copolymer of 90% Glycolide and 10% L-lactide)

Tensile Strength:

- 70 % remains after 14 days
- 50 % remains after 21 days
- 25 % remains after 28 days
- Complete mass absorption in approximately 56-63 days

Colour:

- Violet and undyed

Indications:

KRUUSE Sacryl sutures are indicated for soft tissue approximation and ligation, where absorbable sutures are indicated, including:

- Suturing of subcutaneous tissue
- Fascia
- Joint capsules
- Muscles
- Uterus and GI-surgery
- Vascular surgery

Contraindications:

- Where permanent support is required

Range:

- USP 5-0 to 2
- EP 1 to 5

Sterilization method:

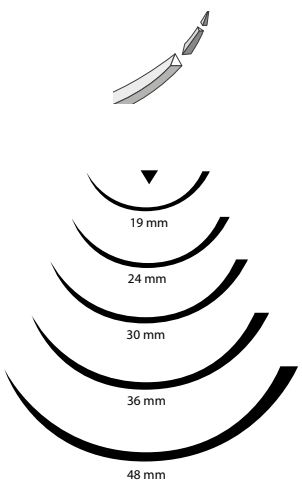

- EO

Packing:

- Boxes of 18 peel packs



KRUUSE Sacryl Plus

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No | |
|--|---|-----|-----|--------------|---------------|----------------|---------|--------|
| <p>3/8 circle, reverse cutting</p>  | 19 | 5-0 | 1 | 45 | Undyed | 18 | 152339 | |
| | 19 | 4-0 | 1.5 | 45 | Undyed | 18 | 152338 | |
| | 19 | 4-0 | 1.5 | 70 | Violet | 18 | 152336 | |
| | 19 | 3-0 | 2 | 70 | Violet | 18 | 152333 | |
| | 19 | 2-0 | 3 | 70 | Violet | 18 | 152340 | |
| | 24 | 3-0 | 2 | 70 | Undyed | 18 | 152337 | |
| | 24 | 3-0 | 2 | 70 | Violet | 18 | 152334 | |
| | 24 | 2-0 | 3 | 70 | Violet | 18 | 152331 | |
| | 30 | 3-0 | 2 | 70 | Violet | 18 | 152335 | |
| | 30 | 2-0 | 3 | 70 | Violet | 18 | 152332 | |
| | 30 | 0 | 3.5 | 70 | Violet | 18 | 152330 | |
| | 36 | 1 | 4 | 90 | Violet | 18 | 152341 | |
| | 48 | 2 | 5 | 90 | Violet | 18 | 152342 | |
| | <p>1/2 circle, round bodied, tapercut</p>  | 26 | 3-0 | 2 | 70 | Violet | 18 | 152343 |
| | | 26 | 2-0 | 3 | 70 | Violet | 18 | 152344 |



KRUUSE PGA

Multifilament, braided: For secure knot tying and easy handling

Synthetic: Minimal tissue reaction

Coated: For easy knot tying and smooth passage through tissue

Absorbable: By hydrolysis

KRUUSE PGA is an absorbable, synthetic, braided and coated suture.

PGA is a synthetic absorbable suture based on Polyglycolic acid. PGA sutures, coated with polycaprolactone and calcium stearate, are inert, non-antigenic and non-pyrogenic.

PGA complies with the requirements of USP and EP, is extremely soft and smooth and has a high knot security.

Absorption: Absorbable:

- Complete mass absorption in approximately 60-90 days
- Absorption by hydrolysis

Chemical composition:

- KRUUSE PGA is composed of Polyglycolic acid coated with polycaprolactone and calcium stearate

Tensile Strength:

- 65 % remains after 14 days
- 35 % remains after 21 days
- Complete mass absorption in approximately 60-90 days

Colour:

- Violet

Indications:

KRUUSE PGA sutures are indicated for soft tissue approximation and ligation, where absorbable sutures are indicated, including:

- Suturing of subcutaneous tissue
- Fascia/abdominal wall closure
- Muscles
- Gynaecology
- GI-surgery
- Ophthalmic surgery

Contraindications:

- Where permanent support is required

Range:

- USP 4-0 to 2
- EP 1.5 to 5

Sterilization method:

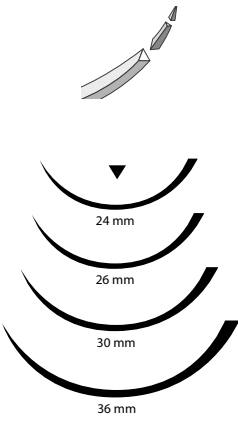
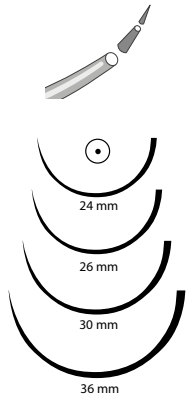
- EO

Packing:

- Boxes of 18 peel packs
- Cassettes



KRUUSE PGA

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|--|---|-----|-----|--------------|---------------|----------------|---------|
| <p>3/8 circle, reverse cutting</p>  | 19 | 4-0 | 1.5 | 70 | Violet | 18 | 152415 |
| | 24 | 4-0 | 1.5 | 70 | Violet | 18 | 152408 |
| | 26 | 3-0 | 2 | 70 | Violet | 18 | 152406 |
| | 26 | 2-0 | 3 | 70 | Violet | 18 | 152404 |
| | 30 | 0 | 3.5 | 70 | Violet | 18 | 152401 |
| | 30 | 0 | 3.5 | 90 | Violet | 18 | 152412 |
| | 30 | 1 | 4 | 90 | Violet | 18 | 152413 |
| | 36 | 1 | 4 | 70 | Violet | 18 | 152402 |
| | 36 | 2 | 5 | 90 | Violet | 18 | 152414 |
| | <p>1/2 circle, round bodied, taperpoint</p>  | 19 | 4-0 | 1.5 | 70 | Violet | 18 |
| 24 | | 4-0 | 1.5 | 70 | Violet | 18 | 152407 |
| 26 | | 3-0 | 2 | 70 | Violet | 18 | 152405 |
| 26 | | 2-0 | 3 | 70 | Violet | 18 | 152403 |
| 30 | | 0 | 3.5 | 70 | Violet | 18 | 152400 |
| 30 | | 0 | 3.5 | 90 | Violet | 18 | 152409 |
| 30 | | 1 | 4 | 90 | Violet | 18 | 152410 |
| 36 | | 2 | 5 | 90 | Violet | 18 | 152411 |



KRUUSE Chromic Catgut

Twisted multifilament with a monofilament appearance:

For secure knot tying and easy handling

Coated: Chromic coating for prolonged absorption time

Absorbable: By hydrolysis

KRUUSE Chromic Catgut, an absorbable suture, is obtained by longitudinally slitting the submucosa of bovine intestine, twisting the ribbons and joining them in wet condition to give a monofilament finish. The rate of absorption is slowed down by treatment with chromic salt solution.

Absorption is faster in infected tissue and in tissues with increased levels of proteolytic enzymes (stomach, cervix, vagina).

Absorption: Absorbable:

- Complete mass absorption in approximately 90 days
- Absorption by hydrolysis and enzymatic proteolysis

Chemical composition:

- Chrome-treated natural purified collagen
- Obtained by longitudinally slitting the submucosa of bovine intestine, twisting the ribbons and joining them in wet condition to give a monofilament finish
- Treated with chromium salt solution

Tensile Strength:

- 50 % remains after 14 days
- Complete mass absorption in approximately 90 days

Colour:

- Natural

Indications:

KRUUSE Chromic Catgut sutures are indicated for soft tissue approximation and ligation, where absorbable sutures are indicated, including:

- Subcutaneous tissue
- Uterus
- Ligation of ovarian vessels and ligaments

Contraindications:

- Where longer or permanent support is required

Range:

- USP 4-0 to 1
- EP 2 to 5

Sterilization method:

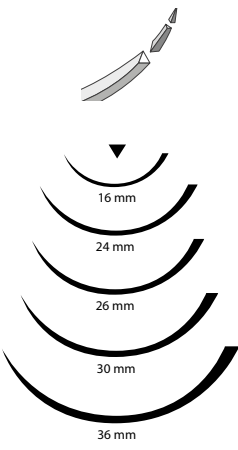
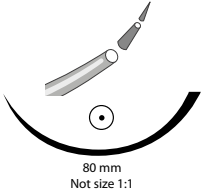
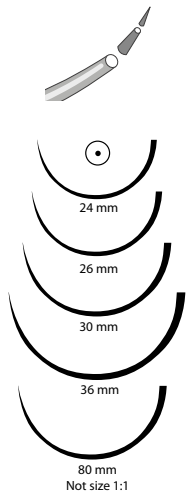
- Gamma radiation

Packing:

- 18 peel packs per box
- Cassettes



KRUUSE Chromic Catgut

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|--|------------------|-----|-----|--------------|---------------|----------------|---------|
| 3/8 circle, reverse cutting  | 16 | 4-0 | 2 | 70 | Natural | 18 | 152210 |
| | 24 | 4-0 | 2 | 70 | Natural | 18 | 152208 |
| | 26 | 3-0 | 3 | 70 | Natural | 18 | 152206 |
| | 26 | 2-0 | 3.5 | 70 | Natural | 18 | 152204 |
| | 30 | 0 | 4 | 70 | Natural | 18 | 152200 |
| | 36 | 1 | 5 | 70 | Natural | 18 | 152202 |
| 3/8 circle, round bodied taperpoint  | 80 | 3 | 7 | 120 | Natural | 18 | 152438 |
| 1/2 circle, round bodied, taperpoint  | 24 | 4-0 | 2 | 70 | Natural | 18 | 152209 |
| | 26 | 3-0 | 3 | 70 | Natural | 18 | 152207 |
| | 26 | 2-0 | 3.5 | 70 | Natural | 18 | 152205 |
| | 30 | 0 | 4 | 70 | Natural | 18 | 152201 |
| | 36 | 1 | 5 | 70 | Natural | 18 | 152203 |
| | 80 | 3 | 7 | 120 | Natural | 18 | 152437 |

KRUUSE Chromic Catgut without needle

| USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|-----|----|--------------|---------------|----------------|---------|
| 4-0 | 2 | 100 | Natural | 18 | 152449 |
| 3 | 7 | 120 | Natural | 12 | 152439 |



KRUUSE PD-X

Monofilament: For smooth passage through tissue and high tissue compatibility

Synthetic: Minimal tissue reaction

Absorbable: By hydrolysis

KRUUSE PD-X is a monofilament synthetic suture with a smooth surface that gives minimal tissue reaction and decreased incidence of infection and trauma.

KRUUSE PD-X meets all the requirements established by the European Pharmacopoeia (EP) and the US Pharmacopoeia (USP) for Synthetic Absorbable Monofilament Surgical Sutures.

Absorption: Absorbable:

- Complete mass absorption in approximately 180-210 days
- Absorption by hydrolysis

Chemical composition:

- KRUUSE PD-X is a slowly absorbable synthetic monofilament suture, and the material is composed of Polydioxanone (PDO)

Tensile Strength:

- 75 % remains after 14 days
- 60 % remains after 28 days
- Complete mass absorption in approximately 180-210 days

Colour:

- Violet

Indications:

KRUUSE PD-X is commonly used in soft tissues and ligation where absorbable sutures are indicated, including:

- Abdominal wall closure
- GI-surgery
- Fascia and ligaments
- Tendon repair
- Hernias
- Orthopaedics
- Vascular surgery

Contraindications:

- Where permanent support is required

Range:

- USP 5-0 to 2
- EP 1 to 5

Sterilization method:


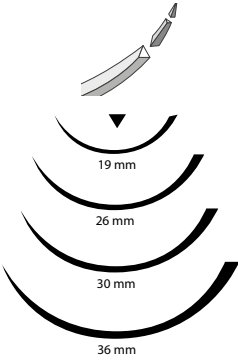
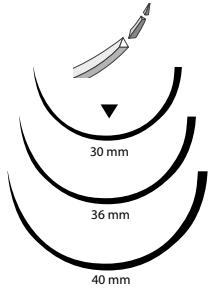
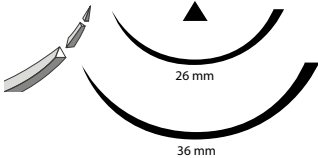

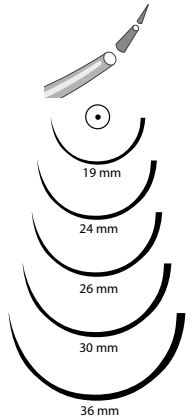
- EO

Packing:

- Boxes of 18 peel packs

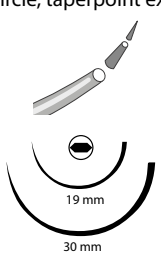
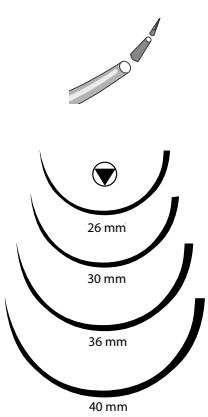


KRUUSE PD-X

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|--|------------------|-----|-----|--------------|---------------|----------------|---------|
| 3/8 circle, micropoint spatula  | 13 | 5-0 | 1 | 45 | Violet | 18 | 152268 |
| 3/8 circle, reverse cutting  | 13 | 5-0 | 1 | 45 | Violet | 18 | 152269 |
| | 19 | 4-0 | 1.5 | 70 | Violet | 18 | 152267 |
| | 19 | 3-0 | 2 | 70 | Violet | 18 | 152265 |
| | 26 | 3-0 | 2 | 45 | Violet | 18 | 152591 |
| | 26 | 3-0 | 2 | 70 | Violet | 18 | 152260 |
| | 26 | 2-0 | 3 | 70 | Violet | 18 | 152255 |
| | 30 | 0 | 3.5 | 70 | Violet | 18 | 152250 |
| | 36 | 1 | 4 | 70 | Violet | 18 | 152253 |
| 1/2 circle, reverse cutting  | 30 | 0 | 3.5 | 70 | Violet | 18 | 152250 |
| | 36 | 2-0 | 3 | 70 | Violet | 18 | 152259 |
| | 36 | 0 | 3.5 | 70 | Violet | 18 | 152252 |
| | 36 | 1 | 4 | 70 | Violet | 18 | 152270 |
| | 40 | 2 | 5 | 70 | Violet | 18 | 152254 |
| 3/8 circle, conventional cutting  | 26 | 3-0 | 2 | 70 | Violet | 18 | 152249 |
| | 36 | 2-0 | 3 | 70 | Violet | 18 | 152279 |
| Straight, trocar point  | 45 | 0 | 3.5 | 45 | Violet | 18 | 152276 |
| | 45 | 1 | 4 | 45 | Violet | 18 | 152277 |
| | 45 | 2 | 5 | 45 | Violet | 18 | 152278 |
| 1/2 circle, round bodied, taperpoint  | 19 | 4-0 | 1.5 | 45 | Violet | 18 | 152272 |
| | 24 | 4-0 | 1.5 | 70 | Violet | 18 | 152266 |
| | 26 | 3-0 | 2 | 70 | Violet | 18 | 152263 |
| | 26 | 2-0 | 3 | 70 | Violet | 18 | 152256 |
| | 26 | 0 | 3.5 | 70 | Violet | 18 | 152274 |
| | 30 | 0 | 3.5 | 70 | Violet | 18 | 152251 |
| | 36 | 1 | 4 | 70 | Violet | 18 | 152273 |

KRUUSE Suture Catalogue

KRUUSE PD-X

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|--|------------------|-----|-----|--------------|---------------|----------------|---------|
| 1/2 circle, taperpoint extra  | 19 | 3-0 | 2 | 70 | Violet | 18 | 152590 |
| | 30 | 2-0 | 3 | 70 | Violet | 18 | 152592 |
| 1/2 circle, round bodied, tapercut  | 26 | 3-0 | 2 | 70 | Violet | 18 | 152262 |
| | 26 | 2-0 | 3 | 70 | Violet | 18 | 152257 |
| | 30 | 0 | 3.5 | 70 | Violet | 18 | 152271 |
| | 36 | 2-0 | 3 | 70 | Violet | 18 | 152593 |
| | 36 | 0 | 3.5 | 70 | Violet | 18 | 152594 |
| | 40 | 0 | 3.5 | 90 | Violet | 18 | 152275 |

KRUUSE PD-X PLUS

Monofilament: For smooth passage through tissue and high tissue compatibility

Synthetic: Minimal tissue reaction

Absorbable: By hydrolysis

KRUUSE PD-X is a monofilament synthetic suture with a smooth surface that gives minimal tissue reaction and decreased incidence of infection and trauma.

KRUUSE PD-X meets all the requirements established by the European Pharmacopoeia (EP) and the US Pharmacopoeia (USP) for Synthetic Absorbable Monofilament Surgical Sutures.

Absorption: Absorbable:

- Complete mass absorption in approximately 180-210 days
- Absorption by hydrolysis

Chemical composition:

- KRUUSE PD-X is a slowly absorbable synthetic monofilament suture, and the material is composed of Polydioxanone (PDO)

Tensile Strength:

- 75 % remains after 14 days
- 60 % remains after 28 days
- Complete mass absorption in approximately 180-210 days

Colour:

- Violet

Indications:

KRUUSE PD-X is commonly used in soft tissues and ligation where absorbable sutures are indicated, including:

- Abdominal wall closure
- GI-surgery
- Fascia and ligaments
- Tendon repair
- Hernias
- Orthopaedics
- Vascular surgery

Contraindications:

- Where permanent support is required

Range:

- USP 4-0 to 2
- EP 1.5 to 5

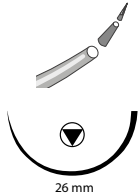
Sterilization method:

- EO

Packing:

- Boxes of 18 peel packs

KRUUSE PD-X PLUS

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|--|------------------|-----|----|--------------|---------------|----------------|---------|
| 1/2 circle, round bodied tapercut  | 26 | 3-0 | 2 | 70 | Violet | 18 | 152710 |
| | 26 | 2-0 | 3 | 70 | Violet | 18 | 152711 |



KRUUSE Promilene

Monofilament: For smooth passage through tissue and high tissue compatibility

Synthetic: For minimal tissue reaction

Non-absorbable: Provides permanent tensile strength

KRUUSE Promilene sutures are coloured blue for easy identification during surgery. The monofilament and synthetic properties of the suture give a smooth surface, minimal tissue reaction and decreased incidence of infection and trauma. The suture is resistant to repeated bending.

Absorption:

- Non-absorbable

Chemical composition:

- KRUUSE Promilene is composed of an isotactic crystalline stereoisomer of polypropylene, a polymer of propylene

Colour:

- Blue

Indications:

KRUUSE Promilene is commonly used in soft tissue approximation and ligation where a permanent support is needed. Areas of use include:

- Skin closure
- Ophthalmic surgery
- Vascular and cardiovascular surgery
- Neurosurgery

Range:

- USP 4-0 to 2
- EP 1.5 to 5

Sterilization method:

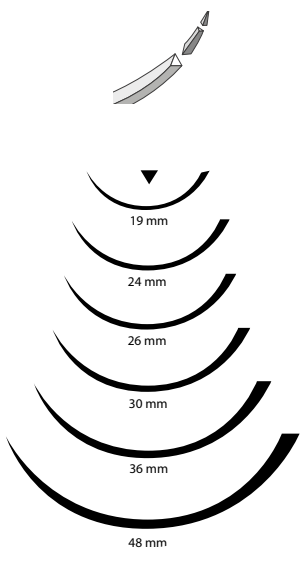

- EO

Packing:

- Boxes of 18 peel packs



KRUUSE Promilene

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|--|------------------|-----|-----|--------------|---------------|----------------|---------|
| <p>3/8 circle, reverse cutting</p>  | 19 | 4-0 | 1.5 | 45 | Blue | 18 | 152368 |
| | 19 | 3-0 | 2 | 45 | Blue | 18 | 152366 |
| | 24 | 4-0 | 1.5 | 70 | Blue | 18 | 152367 |
| | 26 | 3-0 | 2 | 70 | Blue | 18 | 152364 |
| | 26 | 2-0 | 3 | 70 | Blue | 18 | 152362 |
| | 30 | 3-0 | 2 | 70 | Blue | 18 | 152365 |
| | 30 | 0 | 3.5 | 70 | Blue | 18 | 152360 |
| | 36 | 2-0 | 3 | 70 | Blue | 18 | 152363 |
| | 36 | 1 | 4 | 70 | Blue | 18 | 152361 |
| | 48 | 2 | 5 | 90 | Blue | 18 | 152369 |
| <p>Straight, trocar point</p>  | 45 | 2-0 | 3 | 45 | Blue | 18 | 152530 |
| | 45 | 0 | 3.5 | 45 | Blue | 18 | 152531 |
| | 45 | 1 | 4 | 45 | Blue | 18 | 152532 |
| | 45 | 2 | 5 | 45 | Blue | 18 | 152533 |



KRUUSE Krupramid

Pseudo-monofilament: For smooth passage through tissue, high tissue compatibility and excellent handling properties

Synthetic: Minimal tissue reaction

Non-absorbable: Provides permanent tensile strength

KRUUSE Krupramid sutures have a twisted structure and are unique in that they are made of many fine inner nylon fibers which are enclosed in a smooth nylon outer shell. As a result, KRUUSE Krupramid sutures feel smooth like monofilament sutures but they tie better, with fewer knots, and stay tied even with short tag ends.

KRUUSE Krupramid is very strong and has excellent handling properties and knot security. It gives permanent tissue support with high flexibility.

Absorption:

- Non-absorbable

Chemical composition:

- KRUUSE Krupramid is composed of synthetic Polyamide 6.6 strands enclosed in a polyamide 6 sheet

Colour:

- White and black

Indications:

KRUUSE Krupramid is commonly used in soft tissue approximation and ligation where permanent support is needed. Areas of use include:

- Skin closure
- Ophthalmic surgery
- Vascular and cardiovascular surgery
- Neurosurgery

Range:

- USP 3-0 to 1
- EP 2 to 4

Sterilization method:

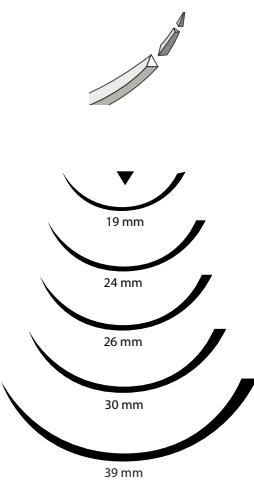
- EO

Packing:

- Boxes of 18 peel packs
- Cassettes



KRUUSE Krupramid

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|--|------------------|-----|-----|--------------|---------------|----------------|---------|
| <p>3/8 circle, reverse cutting</p>  | 19 | 3-0 | 2 | 45 | Black | 18 | 152399 |
| | 24 | 3-0 | 2 | 45 | Black | 18 | 152398 |
| | 24 | 2-0 | 3 | 45 | Black | 18 | 152395 |
| | 26 | 3-0 | 2 | 70 | White | 18 | 152392 |
| | 26 | 2-0 | 3 | 70 | White | 18 | 152391 |
| | 30 | 3-0 | 2 | 45 | Black | 18 | 152397 |
| | 30 | 2-0 | 3 | 45 | Black | 18 | 152394 |
| | 30 | 0 | 3.5 | 70 | White | 18 | 152390 |
| | 39 | 3-0 | 2 | 70 | Black | 18 | 152396 |
| | 39 | 2-0 | 3 | 70 | Black | 18 | 152393 |
| | 39 | 0 | 3.5 | 70 | Black | 18 | 152389 |
| | 39 | 1 | 4 | 70 | Black | 18 | 152388 |
| | 39 | 1 | 4 | 90 | White | 18 | 152387 |



KRUUSE Nylon

Monofilament: For smooth passage through tissue and high tissue compatibility

Synthetic: Minimal tissue reaction

Non-absorbable: Provides permanent tensile strength

KRUUSE Nylon sutures are coloured blue for easy identification during surgery. The monofilament and synthetic properties of the suture give a smooth surface, minimal tissue reaction and decreased incidence of infection and trauma.

KRUUSE Nylon suture is quite pliable and does not support bacterial growth due to the smooth surface. The elasticity of KRUUSE Nylon suture makes it useful in retention and skin closure.

Absorption:

- Non-absorbable

Chemical composition:

- KRUUSE Nylon monofilament suture is made of monofilament polyamide 6&66 by extruding a strong uniform strand.

Colour:

- Blue

Indications:

KRUUSE Nylon is commonly used in soft tissue approximation and ligation where permanent support is needed. Areas of use include:

- Skin closure
- Ophthalmic surgery
- Vascular and cardiovascular surgery
- Neurosurgery

Range:

- USP 4-0 to 1
- EP 1.5 to 4

Sterilization method:

- EO

Packing:

- Boxes of 18 peel packs



KRUUSE Nylon

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|---|------------------|-----|-----|--------------|---------------|----------------|---------|
| <p>3/8 circle, reverse cutting</p> | 19 | 4-0 | 1.5 | 45 | Blue | 18 | 152030 |
| | 19 | 3-0 | 2 | 45 | Blue | 18 | 152031 |
| | 24 | 4-0 | 1.5 | 70 | Blue | 18 | 152425 |
| | 24 | 0 | 3.5 | 70 | Blue | 18 | 152420 |
| | 26 | 3-0 | 2 | 70 | Blue | 18 | 152424 |
| | 26 | 2-0 | 3 | 70 | Blue | 18 | 152423 |
| | 30 | 2-0 | 3 | 90 | Blue | 18 | 152429 |
| | 30 | 0 | 3.5 | 70 | Blue | 18 | 152421 |
| | 36 | 1 | 4 | 70 | Blue | 18 | 152422 |
| | 45 | 2-0 | 3 | 90 | Blue | 18 | 152032 |
| <p>1/2 circle, reverse cutting</p> | 40 | 0 | 3.5 | 90 | Blue | 18 | 152426 |
| | 48 | 1 | 4 | 90 | Blue | 18 | 152427 |
| <p>3/8 circle, conventional cutting</p> | 90 | 2 | 5 | 90 | Blue | 18 | 152428 |
| <p>Straight cutting</p> | 55 | 2-0 | 3 | 90 | Blue | 18 | 152419 |



KRUUSE Silk

Multifilament, braided: For secure knot tying and easy handling
Coated (wax): For easy knot tying and smooth passage through tissue
Non-absorbable: Provides permanent tensile strength

KRUUSE Silk is a natural, braided and coated suture. As silk is a natural fiber, more tissue reaction can be expected using this type of suture compared to synthetic sutures.

Natural silk contains two glycoproteins: Fibroin and sericin. Sericin can cause an immune response and is removed from KRUUSE Silk.

Absorption:

- Non-absorbable

Chemical composition:

- KRUUSE Silk is composed of 100% fibroin (Sericin, which can cause an immune response, is removed)

Colour:

- Black

Indications:

KRUUSE Silk sutures are indicated for soft tissue approximation and ligation, where permanent support is indicated, including:

- Ophthalmic surgery
- Vascular and cardiovascular surgery
- Neurosurgery
- Dental surgery
- Ligation

Contraindications:

- Where a minimum of tissue reaction/foreign body reaction is required

Range:

- USP 4-0 to 0
- EP 1.5 to 3.5

Sterilization method:

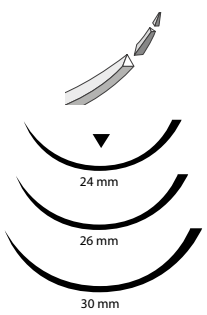
- EO

Packing:

- Boxes of 18 peel packs
- Cassettes



KRUUSE Silk

| Shape of needle | Needle length mm | USP | EP | Length in cm | Suture colour | Number per box | Cat. No |
|--|------------------|-----|-----|--------------|---------------|----------------|---------|
| 3/8 circle, reverse cutting  | 24 | 4-0 | 1.5 | 70 | Black | 18 | 152383 |
| | 26 | 3-0 | 2 | 70 | Black | 18 | 152382 |
| | 26 | 2-0 | 3 | 70 | Black | 18 | 152381 |
| | 30 | 0 | 3.5 | 70 | Black | 18 | 152380 |



Cat. No 150902 - White



Cat. No 150901 - Transparent



KRUUSE Catgut Plain

Twisted multifilament with a monofilament appearance: For secure knot tying and easy handling

Absorbable: By hydrolysis

KRUUSE Catgut, an absorbable suture, is obtained by longitudinally slitting the submucosa of bovine intestine, twisting the ribbons and joining them in wet condition to give a monofilament finish.

Absorption is faster in infected tissue and in tissues with increased levels of proteolytic enzymes (stomach, cervix, vagina).

Absorption: Absorbable:

- Complete mass absorption in approximately 63 days
- Absorption by hydrolysis and enzymatic proteolysis

Chemical composition:

- Natural purified collagen
- Obtained by longitudinally slitting the sub mucosa of bovine intestine, twisting the ribbons and joining them in wet condition to give a monofilament finish

Tensile Strength:

- 50 % remains after 7 days
- Complete mass absorption in approximately 63 days

Colour:

- Natural

Indications:

KRUUSE Catgut sutures are indicated for soft tissue approximation and ligation, where absorbable sutures are indicated, including:

- Subcutaneous tissue
- Uterus
- Ligation of ovarian vessels and ligaments

Contraindications:

- Where longer or permanent support is required

Range:

- USP 0 to 6
- EP 4 to 10

Sterilization method:

- Gamma radiation

Packing:

- Cassettes



KRUUSE Suture Catalogue

KRUUSE Catgut Plain

| USP | EP | Length in m | Suture colour | Cat. No |
|-----|----|-------------|---------------|---------|
| 0 | 4 | 100 | natural | 152430 |
| 1 | 5 | 75 | natural | 152431 |
| 2 | 6 | 50 | natural | 152432 |
| 3 | 7 | 50 | natural | 152433 |
| 4 | 8 | 30 | natural | 152434 |
| 5 | 9 | 30 | natural | 152435 |
| 6 | 10 | 30 | natural | 152436 |



KRUUSE PGA

Multifilament, braided: For secure knot tying and easy handling

Synthetic: Minimal tissue reaction

Coated: For easy knot tying and smooth passage through tissue

Absorbable: By hydrolysis

KRUUSE PGA is an absorbable, synthetic, braided and coated suture.

PGA is a synthetic absorbable suture based on Polyglycolic acid. PGA sutures, coated with polycaprolactone and calcium stearate, are inert, non-antigenic and non-pyrogenic.

PGA complies with the requirements of USP and EP, is extremely soft and smooth and has a high knot security.

Absorption: Absorbable

- Complete mass absorption in approximately 60-90 days
- Absorption by hydrolysis

Chemical composition:

- KRUUSE PGA is composed of Polyglycolic acid coated with polycaprolactone and calcium stearate

Tensile Strength:

- 65 % remains after 14 days
- 35 % remains after 21 days
- Complete mass absorption in approximately 60-90 days

Colour:

- Violet

Indications:

KRUUSE PGA sutures are indicated for soft tissue approximation and ligation, where absorbable sutures are indicated, including:

- Suturing of subcutaneous tissue
- Fascia/abdominal wall closure
- Muscles
- Gynaecology
- GI-surgery
- Ophthalmic surgery

Contraindications:

- Where permanent support is required

Range:

- USP 3-0 to 3+4
- EP 2 to 6

Sterilization method:

- EO

Packing:

- Boxes of 18 peel packs
- Cassettes



KRUUSE Suture Catalogue

KRUUSE PGA

| USP | EP | Length in m | Suture colour | Cat. No |
|-----|-----|-------------|---------------|---------|
| 3-0 | 2 | 15 | Violet | 152495 |
| 2-0 | 3 | 15 | Violet | 152493 |
| 0 | 3.5 | 15 | Violet | 152490 |
| 1 | 4 | 15 | Violet | 152491 |
| 2 | 5 | 15 | Violet | 152492 |
| 3+4 | 6 | 15 | Violet | 152494 |

NB. Expires 3 month after opening of foil pouch



KRUUSE Chromic Catgut

Twisted multifilament with a monofilament appearance: For secure knot tying and easy handling

Coated: Chromic coating for prolonged absorption time

Absorbable: By hydrolysis

KRUUSE Chromic Catgut, an absorbable suture, is obtained by longitudinally slitting the submucosa of bovine intestine, twisting the ribbons and joining them in wet condition to give a monofilament finish. The rate of absorption is slowed down by treatment with chromic salt solution.

Absorption is faster in infected tissue and in tissues with increased levels of proteolytic enzymes (stomach, cervix, vagina).

Absorption: Absorbable:

- Complete mass absorption in approximately 90 days
- Absorption by hydrolysis and enzymatic proteolysis

Chemical composition:

- Chrome-treated natural purified collagen
- Obtained by longitudinally slitting the submucosa of bovine intestine, twisting the ribbons and joining them in wet condition to give a monofilament finish
- Treated with chromium salt solution

Tensile Strength:

- 50 % remains after 14 days
- Complete mass absorption in approximately 90 days

Colour:

- Natural

Indications:

KRUUSE Chromic Catgut sutures are indicated for soft tissue approximation and ligation, where absorbable sutures are indicated, including:

- Subcutaneous tissue
- Uterus
- Ligation of ovarian vessels and ligaments

Contraindications:

- Where longer or permanent support is required

Range:

- USP 3-0 to 5
- EP 3 to 9

Sterilization method:

- Gamma radiation

Packing:

- Boxes of 18 peel packs
- Cassettes



KRUUSE Suture Catalogue

KRUUSE Chromic Catgut

| USP | EP | Length in m | Suture colour | Cat. No |
|-----|-----|-------------|---------------|---------|
| 3-0 | 3 | 100 | natural | 152445 |
| 2-0 | 3.5 | 100 | natural | 152443 |
| 0 | 4 | 100 | natural | 152440 |
| 1 | 5 | 75 | natural | 152441 |
| 2 | 6 | 50 | natural | 152442 |
| 3 | 7 | 50 | natural | 152444 |
| 4 | 8 | 30 | natural | 152446 |
| 5 | 9 | 30 | natural | 152447 |



KRUUSE PD-X

Monofilament: For smooth passage through tissue and high tissue compatibility

Synthetic: Minimal tissue reaction

Absorbable: By hydrolysis

KRUUSE PD-X is a monofilament synthetic suture with a smooth surface that gives minimal tissue reaction and decreased incidence of infection and trauma.

KRUUSE PD-X meets all the requirements established by the European Pharmacopoeia (EP) and the US Pharmacopoeia (USP) for Synthetic Absorbable Monofilament Surgical Sutures.

Absorption: Absorbable:

- Complete mass absorption in approximately 180-210 days
- Absorption by hydrolysis

Chemical composition:

- KRUUSE PD-X is a slowly absorbable synthetic monofilament suture, made of Polydioxanone (PDO)

Tensile Strength:

- 75 % remains after 14 days
- 60 % remains after 28 days
- Complete mass absorption in approximately 180-210 days

Colour:

- Violet

Indications:

KRUUSE PD-X is commonly used in soft tissues and ligation where absorbable sutures are indicated, including:

- Abdominal wall closure
- GI-surgery
- Fascia and ligaments
- Tendon repair
- Hernias
- Orthopaedics
- Vascular surgery

Contraindications:

- Where permanent support is required

Range:

- USP 3-0 to 2-0
- EP 2 to 3

Sterilization method:

- EO

Packing:

- Boxes of 18 peel packs
- Cassettes



KRUUSE Suture Catalogue

KRUUSE PD-X

| USP | EP | Length in m | Suture colour | Cat. No |
|-----|----|-------------|---------------|---------|
| 3-0 | 2 | 15 | Violet | 152700 |
| 3-0 | 2 | 25 | Violet | 152702 |
| 2-0 | 3 | 15 | Violet | 152701 |
| 2-0 | 3 | 25 | Violet | 152703 |

KRUUSE PD-X



KRUUSE Krupramid

Pseudo-monofilament: For smooth passage through tissue, high tissue compatibility and excellent handling properties

Synthetic: Minimal tissue reaction

Non-absorbable: Provides permanent tensile strength

KRUUSE Krupramid sutures have a twisted structure and are unique in that they are made of many fine inner nylon fibers which are enclosed in a smooth nylon outer shell. As a result, KRUUSE Krupramid sutures feel smooth like monofilament sutures but they tie better, with fewer knots, and stay tied even with short tag ends. KRUUSE Krupramid is very strong and has excellent handling properties and knot security. It gives permanent tissue support with high flexibility.

Absorption:

- Non-absorbable

Chemical composition:

- KRUUSE Krupramid is composed of synthetic Polyamide 6.6 strands enclosed in a polyamide 6 sheet

Colour:

- White and black

Indications:

KRUUSE Krupramid is commonly used in soft tissue approximation and ligation where permanent support is needed. Areas of use include:

- Skin closure
- Ophthalmic surgery
- Vascular and cardiovascular surgery
- Neurosurgery

Range:

- USP 3-0 to 3+4
- EP 2 to 6

Sterilization method:

- EO

Packing:

- Boxes of 18 peel packs
- Cassettes



KRUUSE Suture Catalogue

KRUUSE Krupramid

| USP | EP | Length in m | Suture colour | Cat. No |
|-----|-----|-------------|---------------|---------|
| 3-0 | 2 | 100 | White | 152485 |
| 2-0 | 3 | 100 | White | 152483 |
| 0 | 3.5 | 100 | White | 152480 |
| 1 | 4 | 100 | White | 152481 |
| 2 | 5 | 75 | White | 152482 |
| 3+4 | 6 | 50 | White | 152484 |
| 5 | 7 | 50 | White | 152486 |



KRUUSE Silk

Multifilament, braided: For secure knot tying and easy handling
Coated (wax): For easy knot tying and smooth passage through tissue
Non-absorbable: Provides permanent tensile strength

KRUUSE Silk is a natural, braided and coated suture. As silk is a natural fiber, more tissue reaction can be expected using this type of suture compared to synthetic sutures.

Natural silk contains two glycoproteins: Fibroin and sericin. Sericin can cause an immune response and is removed from KRUUSE Silk.

Absorption:

- Non-absorbable

Chemical composition:

- KRUUSE Silk is composed of 100% fibroin (Sericin, which can cause an immune response, is removed)

Colour:

- Black

Indications:

KRUUSE Silk sutures are indicated for soft tissue approximation and ligation, where permanent support is indicated, including:

- Ophthalmic surgery
- Vascular and cardiovascular surgery
- Neurosurgery
- Dental surgery
- Ligation

Contraindications:

- Where a minimum of tissue reaction/foreign body reaction is required

Range:

- USP 3-0 to 5
- EP 2 to 7

Sterilization method:

- EO

Packing:

- Boxes of 18 peel packs
- Cassettes



KRUUSE Suture Catalogue

KRUUSE Silk

| USP | EP | Length in m | Suture colour | Cat. No |
|-----|-----|-------------|---------------|---------|
| 3-0 | 2 | 100 | Black | 152475 |
| 2-0 | 3 | 100 | Black | 152473 |
| 0 | 3.5 | 100 | Black | 152470 |
| 1 | 4 | 100 | Black | 152471 |
| 2 | 5 | 100 | Black | 152472 |
| 3+4 | 6 | 50 | Black | 152474 |
| 5 | 7 | 50 | Black | 152476 |



KRUUSE Dermafil

Multifilament, braided: For secure knot tying, high flexibility and easy handling

Synthetic: Minimal tissue reaction

Coated: For easy knot tying and smooth passage through tissue

Non-absorbable: Provides permanent tensile strength

KRUUSE Dermafil is a braided and coated multifilament synthetic suture composed of polyester. It is coloured green for easy identification during surgery.

Braided polyester is extremely strong providing long term tissue support. It is soft and pliable providing excellent knot security. KRUUSE Dermafil is biologically inert, eliciting only minimal tissue reaction.

Absorption:

- Non-absorbable

Chemical composition:

- KRUUSE Dermafil is composed of polyester and coated with silicone

Colour:

- Green

Indications:

KRUUSE Dermafil is commonly used in soft tissue approximation and ligation where permanent support is needed.

Areas of use include:

- Skin closure
- Ophthalmic surgery
- Neurosurgery

Range:

- USP 4-0 to 2
- EP 1.5 to 5

Sterilization method:

- EO

Packing:

- Cassettes



KRUUSE Suture Catalogue

KRUUSE Dermafil

| USP | EP | Length in m | Suture colour | Cat. No |
|-----|-----|-------------|---------------|---------|
| 4-0 | 1.5 | 100 | Green | 152500 |
| 3-0 | 2 | 100 | Green | 152501 |
| 2-0 | 3 | 100 | Green | 152502 |
| 0 | 3.5 | 100 | Green | 152503 |
| 1 | 4 | 100 | Green | 152504 |
| 2 | 5 | 75 | Green | 152505 |
| 3+4 | 6 | 50 | Green | 152506 |



KRUUSE Linen

Multifilament, braided: For secure knot tying, high flexibility and easy handling

Coated: For easy knot tying and smooth passage through tissue

Non-absorbable

KRUUSE Linen is a braided and coated multifilament, non-absorbable suture based on cellulose and is derived from twisted long staple flax. KRUUSE Linen is packaged dry, but gains a substantial and immediate increase in strength if wetted before use. It possesses a higher tissue reactivity and greater capillarity than cotton.

One of the greatest assets of linen is its low extensibility and thus ability to hold a tight knot.

Absorption:

- Non-absorbable

Chemical composition:

- KRUUSE Linen sutures are based on cellulose and derived from twisted long staple flax

Colour:

- Whitish brown

Indications:

KRUUSE Linen is commonly used in soft tissue approximation and ligation where a permanent support is needed. Areas of use include:

- GI-anastomosis
- Hernia
- Tonsillectomies

Range:

- USP 3+4
- EP 6

Sterilization method:

- EO

Packing:

- Cassettes



KRUUSE Suture Catalogue

KRUUSE Linen

| USP | EP | Length in m | Suture colour | Cat. No |
|-----|----|-------------|---------------|---------|
| 3+4 | 6 | 50 | White | 152460 |



Cassette holder



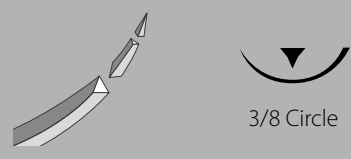
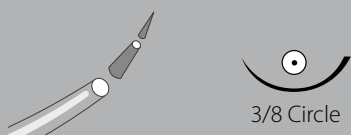
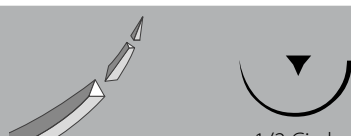
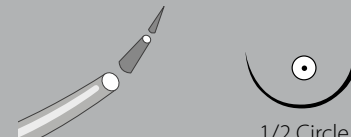
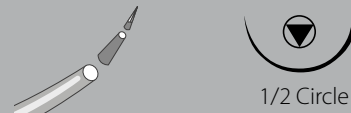

Cat. No 150900

KRUUSE SUTURE NEEDLES - SPRING EYE, 10/pk

Stainless steel suture needles in supreme quality regarding both strength and sharpness.
 All reverse cutting needles are cutting PRIME quality which is gold standard when it comes to skin closure – the PRIME quality makes the suturing more accurate. PRIME needles are also first choice amongst human surgeons.
 Round bodied needles with a taper point edge is the preferred needle type in soft tissue such as intestines, bladder and stomach.



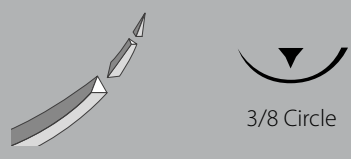
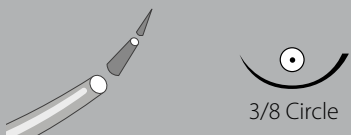
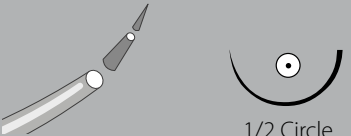
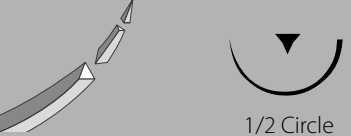


Spring eye

| Cat. No | Shape | Length, mm | Symbol |
|---------|-------------------------------------|------------|---|
| 152630 | 3/8 Circle, Reverse cutting | 17 mm |  <p>3/8 Circle</p> |
| 152631 | 3/8 Circle, Reverse cutting | 21 mm | |
| 152632 | 3/8 Circle, Reverse cutting | 25 mm | |
| 152633 | 3/8 Circle, Reverse cutting | 29 mm | |
| 152634 | 3/8 Circle, Reverse cutting | 41 mm | |
| 152635 | 3/8 Circle, Reverse cutting | 45 mm | |
| 152636 | 3/8 Circle, Reverse cutting | 49 mm | |
| 152637 | 3/8 Circle, Reverse cutting | 61 mm | |
| 152638 | 3/8 Circle, Reverse cutting | 89 mm | |
| 152640 | 3/8 Circle, Round Body, Taper point | 18 mm |  <p>3/8 Circle</p> |
| 152641 | 3/8 Circle, Round Body, Taper point | 23 mm | |
| 152642 | 3/8 Circle, Round Body, Taper point | 28 mm | |
| 152646 | 1/2 Circle, Reverse cutting | 29 mm |  <p>1/2 Circle</p> |
| 152647 | 1/2 Circle, Reverse cutting | 41 mm | |
| 152648 | 1/2 Circle, Reverse cutting | 69 mm | |
| 152650 | 1/2 Circle, Round Body, Taper point | 23 mm |  <p>1/2 Circle</p> |
| 152651 | 1/2 Circle, Round Body, Taper point | 28 mm | |
| 152652 | 1/2 Circle, Round Body, Taper point | 38 mm | |
| 152653 | 1/2 Circle, Round Body, Taper point | 48 mm | |
| 152654 | 1/2 Circle, Round Body, Taper point | 53 mm | |
| 152657 | 1/2 Circle, Round Body, Taper cut | 23 mm |  <p>1/2 Circle</p> |
| 152660 | Straight, Cutting | 75 mm |  |

KRUUSE SUTURE NEEDLES - REGULAR EYE, 10/pk



Regular eye

| Cat. No | Shape | Length, mm | Symbol |
|---------|-------------------------------------|---------------------|---|
| 152600 | 3/8 Circle, Reverse cutting | 17 mm |  |
| 152601 | 3/8 Circle, Reverse cutting | 21 mm | |
| 152602 | 3/8 Circle, Reverse cutting | 25 mm | |
| 152603 | 3/8 Circle, Reverse cutting | 29 mm | |
| 152604 | 3/8 Circle, Reverse cutting | 41 mm | |
| 152605 | 3/8 Circle, Reverse cutting | 49 mm | |
| 152606 | 3/8 Circle, Reverse cutting | 61 mm | |
| 152607 | 3/8 Circle, Reverse cutting | 89 mm (diam 1.1 mm) | |
| 152608 | 3/8 Circle, Reverse cutting | 89 mm (diam 1.6 mm) | |
| 152625 | 3/8 Circle, Round Body, Taper point | 28 mm |  |
| 152610 | 1/2 Circle, Round Body, Taper point | 23 mm |  |
| 152611 | 1/2 Circle, Round Body, Taper point | 28 mm | |
| 152612 | 1/2 Circle, Round Body, Taper point | 38 mm | |
| 152613 | 1/2 Circle, Round Body, Taper point | 48 mm | |
| 152614 | 1/2 Circle, Round Body, Taper point | 53 mm | |
| 152615 | 1/2 Circle, Round Body, Taper point | 68 mm | |
| 152620 | 1/2 Circle, Reverse cutting | 41 mm |  |
| 152621 | 1/2 Circle, Reverse cutting | 49 mm | |
| 152622 | 1/2 Circle, Reverse cutting | 69 mm | |
| 152617 | 1/2 Circle, Round Body, Taper cut | 23 mm |  |
| 152627 | Straight, Cutting | 60 mm |  |
| 152628 | Straight, Cutting | 90 mm | |

Needle holders

Mathieu

German top quality with tungsten carbide inserts, stainless steel:

- 151723 Needle holder Mathieu 14 cm, tungsten
- 151726 Needle holder Mathieu 17 cm, tungsten
- 151750 Needle holder Mathieu 20 cm, tungsten

KRUUSE quality, stainless steel:

- 151724 Needle holder Mathieu, 14 cm
- 151725 Needle holder Mathieu, 17 cm
- 151730 Needle holder Mathieu, 20 cm

European quality, stainless steel:

- 151720 Needle holder Mathieu, 17 cm
- 151755 Needle holder Mathieu, 20 cm

Standard quality, stainless steel:

- 151722 Needle holder Mathieu, 14 cm
- 151721 Needle holder Mathieu, 17 cm
- 151756 Needle holder Mathieu, 20 cm



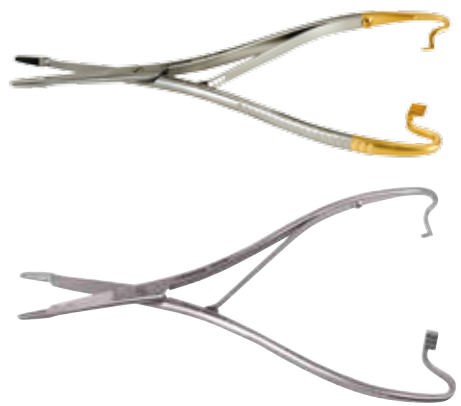
Mathieu-Olsen

German top quality with tungsten carbide inserts, stainless steel:

- 151718 Needle holder Mathieu-Olsen, 14 cm, tungsten
- 151780 Needle holder Mathieu-Olsen, 16 cm, tungsten
- 151785 Needle holder Mathieu-Olsen, 20 cm, tungsten

KRUUSE quality, stainless steel:

- 151719 Needle holder Mathieu-Olsen, 17 cm, tungsten



Hegar Olsen

German top quality with tungsten carbide inserts, stainless steel:

- 151765 Needle holder Hegar Olsen, 14 cm, tungsten

KRUUSE quality, stainless steel:

- 151760 Needle holder Hegar Olsen, 14 cm

Standard quality, with tungsten carbide inserts, stainless steel:

- 151770 Needle holder Hegar Olsen, 20 cm, tungsten



Mayo Hegar

German top quality with tungsten carbide inserts, stainless steel:

- 151713 Needle holder Mayo Hegar, 13 cm, tungsten



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