TROGE MEDICAL SURGICAL SUTURES







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In more than 110 countries around the world, the name TROGE MEDICAL stands for the highest quality at competitive prices.

TROGE MEDICAL GmbH was established in 1986 and is recognised today as a world-wide supplier of medical devices including surgical sutures and pharmaceutical products. The company is based in Hamburg, the third largest container port in Europe, giving us an excellent vantage point to arrange logistics. We work with approved wholesalers and selected distribution partners in over 70 countries. These wholesalers distribute to hospitals, pharmacies and numerous aid organisations in their respective countries.

Our insistence on high-quality production is a matter of course for a company operating in a sensitive area, since people all over the world trust us, and this trust is our most important asset. We highly value the continuous improvement of our products to suit medical needs.

HIGHEST QUALITY AND SAFETY

TROGE MEDICAL has always complied with international quality standards such as EN ISO 9001 and EN ISO 13485 as well as the procedures of our German notified body TÜV NORD CERT. Our products are recognised by internationally approved standards such as EP, BP, USP as well as DIN, EN and ISO. All materials used and finished products are subjected to stringent quality control by a dedicated team. We take a 'beyond compliance' approach to our Quality Management Systems and Quality Assurance initiatives.

With this catalogue we would like to present to you our extensive range of high quality TROGE MEDICAL SURGICAL SUTURE materials.

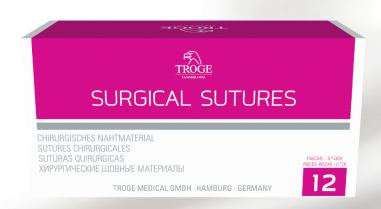
























absorbable sutures

Brand Name/ Material	Structure	Range of Size (USP)	Color	Tensile strength retention days	Indication
TRO-PGA Polyglycolic Acid	Braided	USP 2 – USP 10-0	Violet or Undyed	14 days post implantation 75% 21 days post implantation 40%	 General surgery Gastroenterology Urology Plastic surgery Subcutaneous and intracutaneous closure Gynaecology Ophthalmology Paediatric surgery Ligatures
TRO-PGA rapid Polyglycolic Acid	Braided	USP 2 – USP 8-0	Undyed Ø	7 days post implantation 55% 14 days post implantation 20% 21 days post implantation 40%	 Subcutaneous and intracutaneous closure Gynaecology Odontology Paediatric surgery Ophthalmology Ligatures
TRO-GLACTOFIL Polyglactin 910*	Braided	USP 2 – USP 8-0	Violet	14 days post implantation 75% 21 days post implantation 40% 28 days post implantation 20%	 General surgery Gastroenterology Urology Plastic surgery Subcutaneous and intracutaneous closure Gynaecology Odontology Paediatric surgery Ophthalmology Ligatures
TRO-DOXAFIL Polydioxanone	Monofilament	USP 2 – USP 7-0	Violet or Undyed	14 days post implantation 75% 28 days post implantation 65% 42 days post implantation 50%	 General soft tissue approximation, especially in cases where an extended wound support of more than 4 weeks is desirable Paediatric cardiovascular surgery Suturing of autologous peripheral vessels
TRO-GLECAFIL Polyglecaprone 25 (glycolideco- caprolactone)	Monofilament	USP 2 – USP 6-0	Violet or Undyed	7 days post implantation 65% 14 days post implantation 40%	 Subcutaneous and intracutaneous closure Gynaecology Odontology Paediatric surgery Ophthalmology Ligatures
TRO-PLAINFIL Plain Catgut	Twisted/ Natural	USP 2 – USP 6-0	Yellow	7–10 days	General, soft tissueapproximation and/or ligationOphthalmic procedures, but not
TRO-CHROFIL Chromic Catgut	Braided	USP 2 – USP 6-0	Brown	21–28 days	for use in cardiovascular and neurological procedures

^{*} Available also as TRO-GLACTOFIL antibacterial

Troge Catgut



non-absorbable sutures

Brand Name/ Material	Structure	Range of Size (USP)	Color	Tensile strength	Indication
TRO-PROPYFIL Polypropylene	Monofilament	USP 2 – USP 10-0	Blue	No loss of tensile strength	 Vascular and cardiovascular surgery Skin closure Plastic surgery Ophthalmology Neurosurgery
TRO-NYLOFIL Polyamide 6 and 6.6	Monofilament, Braided	USP 2- USP 6/0	Blue or Black	15–20% loss of tensile strength per year	 Skin closure and plastic surgery Micro-vascular surgery Ophthalmology Orthopaedics
TRO-POLYFIL Polyethylene Terephthalate	Braided	USP 5-0 – USP 7-0	Green or White	Indefinite/long period	 Skin closure Cardiovascular surgery Vascular surgery Ophthalmology Orthopaedics Gastrointestinal surgery Neurosurgery
TRO-SILKOFIL Natural Silk	Braided, Twisted	USP 6-0 USP 8-0 (Braided Silk) USP 8-0 – USP 9-0 (Twisted Silk)	Black (Braided Silk) Blue (Twisted Silk)	Gradual loss of tensile strength over two years	 General surgery Skin Closure Oral surgery Neurosurgery Ligatures (Braided Silk)













Needle Shape

		Tip shape	Needle Cross-section	Application
Taper point/Ro	ound Bodied		•	Gentle separation of fibrous tissue (aponeurosis, biliary tract, dura, fascia, gastrointestinal tract, laparoscopy, muscle, myocardium, nerve, peritoneum, pleura, subcutaneous fat, urogenital tract, vessels, valve)
	Conventional Cutting		\triangle	skin, sternum
Cutting	Reverse Cutting		\bigvee	Cutting edge on outer curve. For tough, difficult- to-penetrate tissues. (fascia, ligament, nasal cavity, oral, mucosa, pharynx, skin, tendon sheath)
Premium Cutt	ting/Extra sharp		\triangle	skin (plastic or cosmetic)
Blunt			•	Blunt dissection (friable tissue), cervix (ligating incompetent cervix), fascia, intestine, kidney, liver, spleen
Taper Cut		3 0	\otimes	Easy penetration of dense tough tissue
Spatula				eye (primary application)

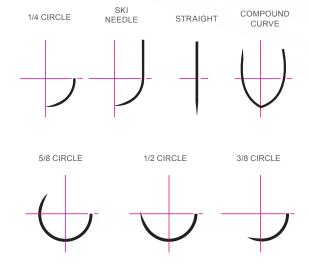
Suture Size

USP	Ph Eur. (Metric)	Diameter (mm)
10-0	0.2	0.020-0.029
9-0	0.3	0.030-0.039
8-0	0.4	0.040–0.049
7-0	0.5	0.050-0.069
6-0	0.7	0.070-0.099
5-0	1	0.100–0.149
4-0	1.5	0.150–0.199
3-0	2	0.200-0.249
2-0	3	0.300-0.349
0	3.5	0.350-0.399
1	4	0.400-0.499
2	5	0.500-0.599

Please note: USP values differ for Catgut Sutures

Needle Curvature

The choice of needle shape is frequently governed by the accessibility of the tissue to be sutured, and normally the more confined the operative site the greater the curvature required. The basic shapes involved are:





Suture Needle Length Diametre Length Curvature Cross-section cm USP TRO-PGA round **PGA** straight 10-0 100 A 0 6 6 1 15 bodied Polyglycolic Acid 6.5 6.5 (\cdot) 9-0 90 7 7 20 round TRO-PGA rapid 8 8 ¹/₂ circle В **PGAR** 1 bodied 8-0 80 Polyglycolic Acid 8.5 8.5 heavy absorbable sutures 30 (\cdot) 10 10 7-0 70 1/2 circle TRO-GLACTOFIL 11 (11) (C) curved 2 PGLA* (double) cutting Polyglactin 910 12 12 45 4 6-0 60 \triangle 13 13 14 (14) curved 5-0 50 3 **PDO** 60 5 cutting 1/4 circle D 15 15 Polydioxanone heavy 16 4-0 40 16 \triangle 70 17 (17) TRO-GLECAFIL reverse (4) **PGCL** 1/4 circle 3-0 30 E 18 18 cutting Polyglecaprone 25 (double) 19 19 ∇ 75 2-0 20 20 (20) reverse 5 cutting 22 22 90 8 Chromic catgut 0 10 heavy 24 3/8 circle F 24 25 25 1 01 9 100 tapercut 6 CP 26 26 Plain catgut 3/8 circle G 27 27 2 02 (double) tapercut 10 120 28 28 [7] heavy 30 30 35 35 125 1 non-absorbable sutures micro-point 5/8 circle Н 38 38 8 spatula TRO-PROPYFIL 39 (39) curved **PM** 150 12 Polypropylene 40 (40) 5/8 circle 45 45 blunt 9 (double) 13 taper point **TRO-NYLOFIL** 180 48 48 NL \odot 50 50 Nylon 55 55 blunt taper 10 point J shape J 60 60 **TRO-SILKOFIL** heavy SK 65 65 Silk \odot 70 70 straight [11] 75 75 cutting **TRO-POLYFIL** PB Compound 80 K 80 \triangle Polyester Curve 90 90

*Also available as PGLA antibacterial

Further specifications available on request

Example Product Code:

PGA





35





CODE

PGA21035B0

Related TROGE MEDICAL products:

TRO-MICROCISION

SURGICAL SCALPELS



Quality: DIN EN 27740 (= ISO 7740)

TRO-MICROCISION surgical scalpels consist of a plastic handle to which a blade of carbon steel is securely fixed. The precision blades show durable sharpness also during long incisions. TRO-MICROCISION surgical scalpels are sterile, pyrogen-free and atoxic. Also available with stainless steel blade. For single use.

MATERIAL: PVC, carbon / stainless steel

STANDARD SIZES: 10 | 11 | 12 | 15 | 18 | 20 | 21 | 22 | 23 | 24 other sizes available

TRO-MICROCUT/ TRO-MICROGRIP

SURGICAL BLADES/SCALPEL HANDLES



Quality: DIN EN 27740 (= ISO 7740)

TRO-MICROCUT surgical blades are made of carbon steel. The precision blades show durable sharpness also during long incisions. Sterile, pyrogen-free and atoxic. Also available in stainless steel. For single use. For smooth and safe surgery incisions. TRO-MICROGRIP scalpel handles are made of stainless steel and can be reused. They are supplied non sterile.

SIZES – SCALPEL HANDLES: No. 3 (for blades no. 10 – 15) No. 4 (for blades no. 18 – 25)

MATERIAL: Carbon / stainless steel

STANDARD SIZES - BLADES: 10 | 11 | 12 | 15 | 18 | 20 | 21 | 22 | 23 | 24

other sizes available

TRO-SENSOSURGE

SURGICAL GLOVES



QUALITY: ASTM D 3577, EN 455

TRO-SENSOSURGE surgical gloves are made of soft latex material and are sterile. Due to their excellent elasticity they are extremely resistant and show a high tensile strength. They are shaped anatomically and lightly powdered with fully absorbable corn starch USP, ensuring best comfort also in longlasting procedures. The microrough surface enables improved instrument handling maintaining maximum sensitivity. Also available, TRO-SENSOSURGE plus: powder free, polymer-coated surgical gloves with extra long cuff. For single use in the operating room or catheterisations.

MATERIAL: Latex

SIZES: 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9

CARING FOR GLOBAL HEALTH