



COMPANY PROFILE

MEGA MED is one of the professional manufacturer for the Medical products in Armenia.

We export our products to customers in Europe, South Africa, South east of Asia, South America, Middle East. We are proud to specialize in the production and distribution of all types and models of surgical sutures and surgical blades

In order to fulfill the increasing of our trusted and loyal customers, apart from our factory we have more than strategic partners which produce surgical gowns, infusing sets, surgical masks, surgical caps, test tubes, and urine bags diagnostic & lab products — all with the highest quality.

We care the success of our customers. We know that the importance of quality, so we set up a strong QC team to ensure & control quality.

(HEADQUARTERS)

"MEGA MED GROUP" LLC

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(BRANCH)

"MEGA MED GROUP" LLC

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In future, Mega Med will keep high efficiency and professionalism for every customer, and associating company development with human health. We will keep putting love and respect into our every product, and make our best efforts to bring health to everyone in the world.

SURGICAL SUTURE

HS-E20



Features:

1. **Thread Length:** 45cm, 60cm, 75cm, 100cm, 125cm, 150cm etc.
2. **Thread diameter:** 8/0, 7/0, 6/0, 5/0, 4/0, 3/0, 2/0, 1/0, 1, 2, 3, etc.
3. **Needle Curvature:** straight, 1/2 circle, 1/2 circle (double), 1/4 circle, 1/4 circle (double), 3/8 circle, 3/8 circle(double), 5/8 circle, loop round.
4. **Needle Length:** 6mm, 8mm, 12mm, 18mm, 22mm, 30mm, 35mm, 40mm, 50mm etc.
5. **Needle End Type:** rolled end, drilled end, regular-eye end.
6. **Needle Body:** taper point, blunt taper point, cutting edge, reverse cutting edge, tapercut, micro-point spatula curved.
7. **Cross Section:** round bodied round bodied(heavy), curved cutting, curvedcutting(heavy).
8. **Reverse Cutting:** reverse cutt-ing(heavy), tapercut, micro-point spatula curved etc.
9. **Sterilization Method:** gamma radiation or ethylene oxide (can be used directly without being re-sterilized before use).

Packing:

1 set/sealed polyester and aluminum foil sachet,
12 foil sachets/Box or Plastic container, 50boxes/ctn 28x28x34cm



Absorbable Surgical Suture	Natural	Chromic Catgut
		Plaint Catgut
	Artificial chemical synthesis	Polyglycolic Acid
		Rapid Polyglycolic Acid
		Polyglactin 910 (PGLA 910)
		Rapid Polyglactin 910 (PGLA 910-R)
		Polydioxanone (PDO/ PDS)
Poleglecaprone(PGCL)		
Non-absorbable Surgical Suture	Natural	Silk Braided
	Artificial chemical synthesis	Nylon Monofilament
		Polyester Braided
		Polypropylene
		Stainless Steel Wire

Suture

Polyglycolic Acid (Pga) Suture

Synthetic, absorbable, multifilament braided suture, in a violet color or undyed.

The tissue reactivity in microscope form is minimal.

Absorption occurs through progressive hydrolytic action, completed between 60 or 90 days.

Frequently used in tissues coaptation ties and ophthalmic procedures.

USP: 8/0--2#

Be sterilized by EO

Package: Individual aluminum sealed foil



Polyglycolic Acid Rapid (Pgar) Suture

Synthetic, absorbable, multifilament braided suture, undyed.

The tissue reactivity in microscope form is minimal.

Absorption occurs through progressive hydrolytic action, completed at 42 days.

Frequently used in tissues that have a short cicatrisation period.

USP: 8/0--2#

Be sterilized by EO

Package: Individual aluminum sealed foil



Polydioxanone (Pds) Suture

Synthetic, absorbable, monofilament suture in a violet color.

The tissue reaction is minimal.

Absorption through slow hydrolytic action completed in 200 days approximately.

Frequently used in tissues coaptation that slowly heals.

USP: 8/0--2#

Be sterilized by EO

Package: Individual aluminum sealed foil



Suture

Poly(Glycolide-co-l-lactide) Suture

Synthetic, absorbable, multifilament braided suture in a violet color
Or undyed.

The tissue reaction is minimal.

Absorption occurs through progressive hydrolytic action

Completed between 56 and 70 days.

Frequently used for tissues coaptation and ophthalmic procedures.

USP: 8/0--2#

Be sterilized by EO

Package: Individual aluminum sealed foil



Polydioxanone 25 (Pds Rapid) Suture

Synthetic, absorbable, monofilament suture in a violet color

The tissue reaction is minimal.

Absorption through slow hydrolytic action Completed in 90 to 120 days

Approximately.

Frequently used in tissues coaptation that slowly heals.

USP: 8/0--2#

Be sterilized by EO

Package: Individual aluminum sealed foil



Chromic Catgut Suture

Animal originated suture with twisted filament, absorbable brown color and green color.

Tissue reactivity is relatively moderate.

Absorbed by enzymatic in approximately 90 days.

Frequently used in surgery, such as G.U.Ped surgery, OB/GYN.

Be sterilized by GAMMA

Package: Individual aluminum sealed foil.



Suture

Plain Catgut Suture

Absorbable, animal originated suture with twisted multifilament, beige color

Tissue reactivity is relatively moderate.

Absorbed by enzymatic in approximately 70 days.

Frequently used in surgery, such as G.U./G.I.

Be sterilized by GAMMA

Package: Individual aluminum sealed foil



Silk Suture

Natural, multifilament, braided, non-absorbable, silk suture, color black, white.

Tissue reaction may be moderate.

Frequently used in tissue confrontation in surgery, such as eye

Surgery, skin/subcuticular, D.I/Ped Surgery and skin closure.

USP: 8/0--2#

Be sterilized by GAMMA

Package: Individual aluminum sealed foil



Nylon Suture

Monofilament, synthetic, non-absorbable suture, color black, blue or undyed.

Tissue reaction is minimal.

Nylon is a non-absorbable material that with time, is encapsulated by connective tissue.

Normally used when confronting tissue in Neurological, Ophthalmic, and plastic surgery.

USP: 10/0--3#

Be sterilized by GAMMA

Package: Individual aluminum sealed foil



Suture

Polypropylene Suture

Synthetic, non-absorbable, monofilament suture, color blue

Tissue reaction is minimal.

Frequently used to confront tissue in specialized areas,

Such as Cardiovascular, Ventricular Aneurysmectomy

USP: 10/0--3#

STERILIZED BY EO

Package: Individual aluminum sealed foil



Polyester Suture

Synthetic, non-absorbable, multifilament, braided suture, color green

Because of its non-absorbable synthetic origin, it has a minimum tissue reactivity.

Frequently used in special surgery including aortic valve pro. spetal

Defect rep. and spetal defect rep.

USP: 8/0--2#

Be sterilized by GAMMA

Package: Individual aluminum sealed foil



Stainless Suture Steel Wire

Monofilament, stainless steel, non-absorbable suture, color natural

Inflammatory reaction is minimal.

Frequently used in orthopedic procedures

Be sterilized by GAMMA

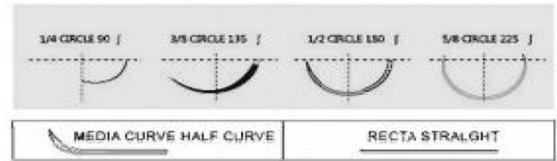
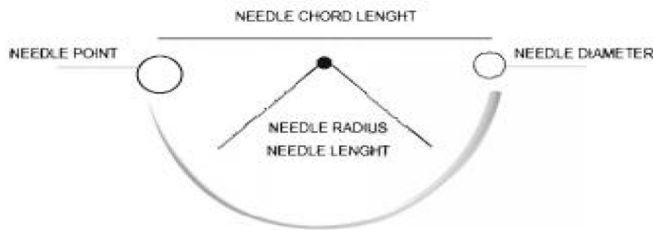
Package: polyester fiber bag





Suture

Technical Description



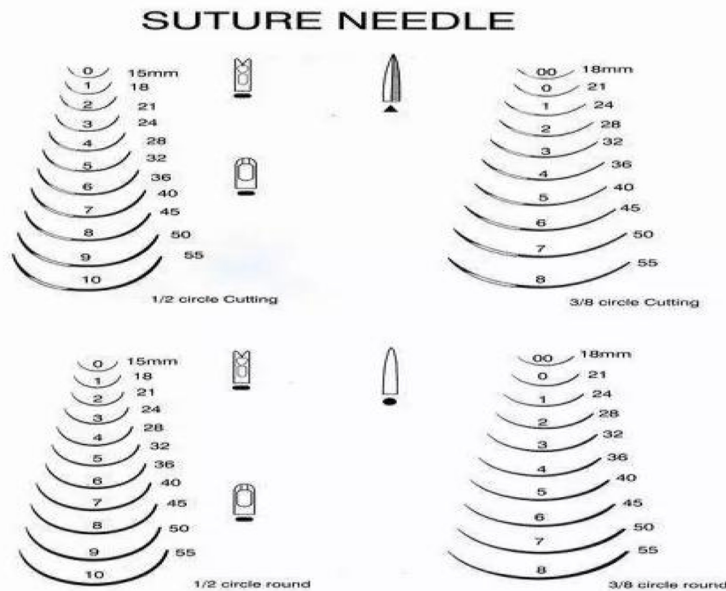
TYPE	POINT	DESIGN	CUTTING PATTERN	DESCRIPTION AND RECOMMENDATIONS
TAPER POINT				Widely used in tissue with a moderate easiness of penetration, as peritounenm-fascia, muscle, fatty tissue, intestine etc. It is also widely used in veins and arteries, Specialties; General Surgery, Gastro-intestinal, Cardiovascular and Gynecology.
REVERSE CUTTING				Cutting needle characterized for its triangular cutting pattern, with the edge on the outside of the needle. Widely used in Reconstructive Plastic Surgery and, in general, in Cuticular closing where the objective is a favorable cosmetic result.
CONVENTIONAL CUTTING				Cutting needle characterized for its triangular cutting pattern, with the cutting edge on the inside of the needle. Widely used in Reconstructive Plastic Surgery and in Cuticular closing where the objective is a favorable cosmetic result.
BLUNT POINT				Needle indicated specially for very soft or fragile tissue where a little effort is needed to guide the hence thread, avoiding damage to the tissue. Can be used for example in liver, kidney, etc.
TAPER CUTTING				Widely used in very hard tissue where penetration is required with a circular pattern, This avoids damage to the tissue from the tension of the suture. It is also used in tendons, orthopedics and sternum closure, due to its great penetration and strength.
PREMIUM SPATULA				Due to its thin flat knife-like shape, with lateral and bottom cutting edges, its passing through the tissue is smooth, minimizing trauma and avoiding accidental penetration of deeper tissue. Recommended for ophthalmic procedures. (For examples cataract and front segment surgery, etc.)
PREMIUM TAPER POINT CUTTING				Round bodied needle with a special precision cutting point, allowing easier penetration through calcified tissue. The needle is manufactured from a special stainless steel alloy that provides an excellent penetration and high resistance to bending. Ideal for placing heart valves and cardiovascular surgery.

Suture

Suture Needle (Spring Eye)

Package: 1000pcs/box

We can process the products according to the samples provided by our customers.



Suture Needle (Drill Hole)

Package: 1000pcs/box

We can process the products according to the samples provided by our customers.



Surgical Blade

Both Stainless Steel and Carbon Steel are available;

*100 blades per box(single blade package);

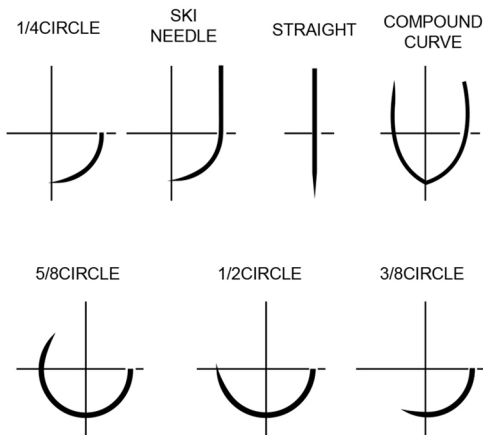
*Specifications:No.10,11,12,14,15,18,20,21,22,23,24,25;

*We can process the products according to the Samples and pack the products according to the fixed Brands which are supplied by our customers.

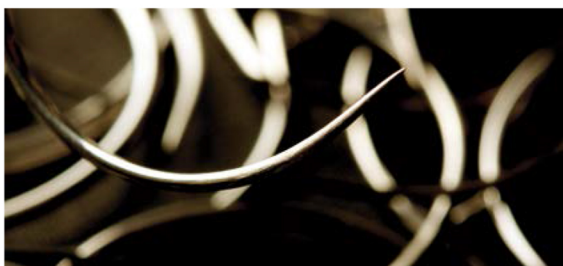
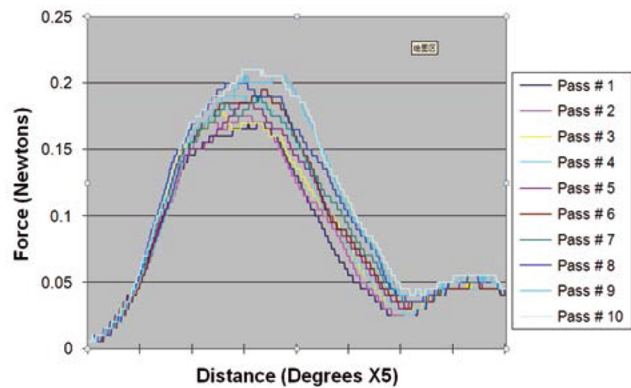


Needle Types and Tip Geometrics

		Code	Tip Geometry	Needle Cross-section
Taper Point/Round Body		TA		
Cutting	Conventional Cutting	CU		
	Reverse Cutting	RC		
Extra-Sharp Cutting		P		
Blunt		BL		
Taper Cut		TC		
Spatula		SP		



Penetration Test








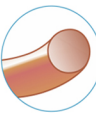
The needles for regular suture made by the full machines and technique from US with AISI420 or AISI302 alloy; the optimized precision tip geometric offers an outstanding Penetration performance with excellence balance with Bending and Ductility. Needles for Specialty Sutures from US, Euro and Japan covers the micro needles. Available needle length from 6mm to 90mm under 1/4 circle, 1/2 circle, 3/8 circle, 5/8 circle and compound curver.

Needle Penetration Level

Needle Wire Diameter(mm)	Penetration Force(N)	
	Taper Point	Reverse Cutting
0.43	0.20-0.25	0.17-0.20
0.52	0.20-0.27	0.20-0.25
0.56	0.25-0.30	0.20-0.25
0.60	0.27-0.30	0.22-0.26
0.66	0.27-0.30	0.22-0.26
0.70	0.27-0.30	0.22-0.26
0.80	0.30-0.35	0.25-0.30
0.86	0.30-0.35	0.30-0.35
0.90	0.30-0.35	0.30-0.35
1.00	0.35-0.40	0.30-0.38
1.10	0.37-0.45	0.33-0.38
1.27	0.45-0.50	0.35-0.40

SURGICAL SUTURE

Absorbable

Brand Name	Material	Structure	Range of Size (USP)	Color	Tensile strength retention-days	Application	CE	FDA	
	PGA	100% Polyglycolic Acid	Braided	USP #2- USP 10/0	Violet or Undyed	14 days post implantation 60-70% 18 days post implantation 50% 21 days post implantation 40%	General surgery, Gastroenterology, Urology, Plastic, Subcutaneous and intracutaneous closure, Gynaecology, Ophthalmic, Paediatric surgery and Ligatures	Yes	Yes
	PGLA	Poly (glycolide-co-lactide) (90/10)	Braided	USP #2- USP 8/0	Violet (D&C violet No.2)	14days post implantation 75% 21days post implantation 50%	General surgery, Gastroenterology, Urology, Plastic, Subcutaneous and intracutaneous closure, Gynaecology, Odontology, Paediatric surgery, Ophthalmology, Ligatures	Yes	Yes
	PDO	Polydioxanone	Monofilament	USP #2- USP 7/0	Violet (D&C No.2) or Undyed	28days post implantation 50% (≤USP4/0 – Metric 1.5) 35days post implantation 50% (≥USP3/0 – Metric 2)	General soft tissue approximation, specially in cases where an extended wound support of more than 4 weeks is desirable, pediatric cardiovascular surgery and for the suturing of autologous peripheral vessels	Yes	Yes
	PGCL	Poly (glycolide-caprolactone) (PGA-PCL)	Monofilament	USP #2- USP 6/0	Undyed or Violet (D&C no.2)	1 week post implantation 60%~80%	Subcutaneous and intracutaneous closure, Gynaecology, Odontology, Paediatric surgery, Ophthalmology, Ligatures	In Process	Yes
	CATGUT	Plain Catgut	Twisted (Natural)	USP #2- USP 6/0	Yellow	7-10days	General, soft tissue approximation and/or ligation, Ophthalmic procedures, but not for use in cardiovascular and neurological procedures	NO	NO
		Chromic Catgut	Braided	USP #2- USP 6/0	Brown	21-28days			

SURGICAL SUTURE

Non-absorbable sutures

Brand Name	Material	Structure	Range of Size (USP)	Color	Tensile strength retention-days	Application	CE	FDA
 POLYPROPYLENE	Polypropylene	Monofilament	USP #2- USP 10/0	Blue	No loss of tensile strength	Vascular and Cardiovascular surgery, Skin Closure, Plastic surgery, Ophthalmology, Neurosurgery	Yes	Yes
 Polyamide 6 and 6.6	Polyamide 6 and 6.6	Monofilament	USP #2- USP 6/0	Blue/ Black	15-20% per year	Skin and Plastic Surgery, Micro-vascular surgery, Ophthalmology, Orthopaedics	Yes	Yes
 Braided	Polyamide 6 and 6.6	Braided	USP #2- USP 10/0	Black (logwood)/ Blue(FD&C Blue No.2/ White (Undyed)	15-20% per year	Skin and Plastic Surgery, Micro-vascular surgery, Ophthalmology, Orthopaedics	Yes	Yes
 POLYESTER	Polyethylene terephthalate	Braided	USP #5- USP 7/0	Green or White	Long Period	Skin Closure, Cardiovascular surgery, Vascular surgery, Ophthalmology, Orthopaedics, Gastrointestinal surgery, Neurosurgery	Yes	Yes
 Natural	Natural	Braided, Twisted	USP #6- USP 8/0 (Braided) USP 8/0- USP 9/0 (Twisted)	Black (Braided) Blue (Twisted)	Two Years	General surgery, Skin Closure, Oral surgery, Neurosurgery, Ligatures (Braided)	Yes	Yes
 PTFE	100% high-density polytetrafluoroethylene (PTFE) polymer	Monofilament	USP 2/0- USP 6/0	Undyed	Long Period	All types of soft tissue approximation and/or ligation, including cardiovascular, dental and general surgeries	In Process	In Process

SURGICAL SUTURE



Suture With Needle

The 1 st Figure	Letter	Material
The 2 nd Figure	16 carry digit	USP
The 3 rd Figure	16 carry digit	Needle Tip
The 4 th and 5 th Figure	Number	Needle Length
The 6 th Figure	Number	Needle Curve
The 7 th Figure	Letter	Subsidiary

For Example:GB1402 PGA 0# taper point 40 mm needle 1/2 curve

Suture Without Needle

The 1 st Figure	Letter	Material
The 2 nd Figure	16 carry digit	USP
The 3 rd Figure	0	Without Needle
The 4 th and 6 th Figure	Number	Thread Length
The 7 th and 8 th Figure	Number	Thread Amount
The 9 th Figure	Letter	Subsidiary

For Example:S3006030Q Imported Silk Thread 3/0,Precut 60 cm,30 pieces in a Packet

For Example **G B 1 40 2** — **75** ← Suture Length
Unit: cm

1st-2nd digit: Thread Material

G	PGA (Polyglycolic Acid)
K	PGA Rapid
A	PGLA
J	PGLA Rapid
D	PDO (Polydioxanone)
Q	PGCL
L	Plain Gut
C	Chromic Gut
S	Silk
N	Nylon
B	Braided Nylon
V	Nylon
P	Polypropylene
E	Polyester
Z	PTFE
PV	PVDF
GS	Steel
H	UHDPE

3rd digit: USP

1	1-0
2	2-0
3	3-0
4	4-0
5	5-0
6	6-0
7	7-0
8	8-0
9	9-0
A	10-0
X	11-0
Y	12-0
B	1
C	2
D	3
E	4
F	5

4th digit: Needle Tip

Taper
Blunt Point
Reverse Cutting
Cutting
Diamond
Premium Cutting
Taper-cut
Spatula/Lancet
Square
Wing
Sleigh
CC
Trocar

5th-6th digit: Needle Length

Unit: mm

7th digit: Needle Curve

2	1/2
3	3/8
4	1/4
5	5/8
6	Compound
0	Straight
J	J Needle

8th digit and latter: Subsidiary

W	White
G	Green
B	Black
V	Violet
L	Blue
X	Red
U	Undyed
E	Thicker thread
H	Thicker needle
P	Loop
R	Reel
A	Black needle
D	Double needle
T	Pledget
K	Clip
N	Non coated

PGA DATA SHEET

Structure	Multifilament, braided
Chemical composition	100% polyglycolic acid
Coating	Polycaprolactone + Calcium Stearate
Color	Violet or Undyed
Sizes	USP 2-USP 10/0 metric 5 - metric 0.2
Knot tensile strength Retention	14 days post implantation 60-70% 18 days post implantation 50% 21 days post implantation 40%
Mass absorption	Degradation by hydrolysis within 60-90 days
Indications	General surgery, Gastroenterology, Urology, Plastic, Subcutaneous and intracutaneous closure, Gynaecology, Ophthalmic, Paediatric surgery and Ligatures
Sterilization	Ethylene oxide

RPGA DATA SHEET

Structure	Multifilament, braided
Chemical composition	100% polyglycolic acid
Coating	Polycaprolactone + Calcium Stearate
Color	Undyed
Sizes	USP 2- USP 8/0 metric 5 – metric 0.4
Knot tensile strength	7 days post implantation 50%
retention	14 days post implantation 0%
Mass absorption	Degradation by hydrolysis in approx. 42 days
Indications	Subcutaneous and intracutaneous closure, Gynaecology, Odontology, Paediatric surgery, Ophthalmology, Ligatures
Sterilization	Ethylene oxide

PDO DATA SHEET

Structure	Monofilament
Chemical composition	Polydioxanone
Color	Violet(D&C No.2) or Undyed
Sizes	USP 2- USP 7/0 metric 5 – metric 0.5
Knot tensile strength	28days post implantation 50% (\leq USP4/0 – Metric 1.5)
retention	35days post implantation 50% (\geq USP3/0 – Metric 2)
Mass absorption	Degradation by hydrolysis within 180 – 210 days
Indications	General soft tissue approximation, specially in cases where an extended wound support of more than 4 weeks is desirable, pediatric cardiovascular surgery and for the suturing of autologous peripheral vessels
Contraindications	Approximation of tissue under tension an suturing of synthetic implant like vascular grafts or cardiac valves
Sterilization	Ethylene oxide

PGLA DATA SHEET

Structure	Multifilament, braided
Chemical composition	Poly(glycolide-co-lactide)(90/10)
Coating	Poly(glycolide-co-lactide)(30/70)+Calcium Stearate
Color	Violet (D&C violet No.2)
Sizes	USP 2- USP 7/0 metric 5 – metric 0.5
Knot tensile strength	14days post implantation 75%
retention	21days post implantation 50%
Mass absorption	Degradation by hydrolysis within 56~70 days
Indications	General surgery, Gastroenterology, Urology, Plastic, Subcutaneous and intracutaneous closure, Gynaecology, Odontology, Paediatric surgery, Ophthalmology, Ligatures
Sterilization	Ethylene oxide

PGCL DATA SHEET

Structure	Multifilament
Chemical Composition	Poly(glycolide-co-caprolactone) (PGA-PCL)
Color	Undyed or Violet(D&C no.2)
Sizes	USP 2- USP 6/0
Strength Retention Profile	1 week post implantation 60%~80%
Absorption Profile	Degradation by hydrolysis within 90-110 days
Indications	Subcutaneous and intracutaneous closure, Gynaecology, Odontology, Paediatric surgery, Ophthalmology, Ligatures
Sterilization	Ethylene oxide gas

DATA SHEET

Structure	Braided, Twisted
Composition	Natural silk
Coating	Medical Grade Silicone / Wax Uncoated (Twisted)
Color	Black (Braided) Blue (Twisted)
Sizes	USP 6- USP 8/0 metric 8 – metric 0.4 (Braided) USP 8/0- USP 9/0 metric 0.4 – metric 0.3 (Twisted)
Mass absorption	Non-absorbable
Indications	General surgery, Skin Closure, Oral surgery, Neurosurgery, Ligatures (Braided)
Contraindications	Braided should not be used in the biliary or urinary tracts or in cases of infection
Sterilization	Ethylene oxide

DATA SHEET

Structure	Monofilament
Chemical composition	Polyamide 6 and 6.6
Color	Blue/Black
Sizes	USP 2- USP 6/0 metric 2 – metric 0.1
Knot tensile strength Retention	15-20% per year
Indications	Skin and Plastic Surgery, Micro-vascular surgery, Ophthalmology, Orthopaedics
Contraindications	Not known
Sterilization	Ethylene oxide

BRAIDED DATA SHEET

Structure	Braided
Chemical composition	Polyamide 6 and 6.6
Color	Black(logwood)/Blue(FD&C Blue No.2/ White(Undyed)
Coating	Silicone / Wax
Sizes	USP 2- USP 10/0 metric 2 – metric 0.1
Knot tensile strength Retention	15-20% per year
Indications	Skin and Plastic Surgery, Micro-vascular surgery, Ophthalmology, Orthopaedics
Contraindications	Not known.
Sterilization	Ethylene oxide

POLYESTER DATA SHEET

Structure	Braided
Chemical Composition	Polyethylene terephthalate
Coating	Medical Grade Silicone/ Un-coated / Teflon
Color	Green or White
Sizes	USP 3- USP 6/0 metric6 – metric 0.7
Mass absorption	Non-absorbable
Indications	Skin Closure, Cardiovascular surgery, Vascular surgery, Ophthalmology, Orthopaedics, Gastrointestinal surgery, Neurosurgery
Contraindications	Not Known
Sterilization	Ethylene oxide

POLYPROPYLENE DATA SHEET

Structure	Monofilament
Chemical composition	Polypropylene
Color	Blue
Sizes	USP 2- USP 10/0 metric 2 – metric 0.1
Knot tensile strength Retention	No loss of tensile strength
Mass absorption	Non-absorbable
Indications	Vascular and Cardiovascular surgery, Skin Closure, Plastic surgery, Ophthalmology, Neurosurgery
Contraindications	Not known.
Sterilization	Ethylene oxide

Suture Size

USP	EP(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
	2.5	0.250-0.299
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

Tensile Strength

※Data Sources:YY-1116-2002

Size	Class 1			Class 2	
	Average Value		Minimum Value	Minimum Value	
	N	KGF	N	N	KGF
10-0	—	—	—	0.25	0.025
9-0	—	—	—	0.49	0.050
8-0	0.44	0.045	0.25	0.69	0.070
7-0	0.69	0.070	0.54	1.37	0.140
6-0	1.76	0.180	0.98	2.45	0.250
5-0	3.72	0.380	1.96	6.66	0.680
4-0	7.54	0.769	3.92	9.31	0.950
3-0	12.25	1.250	6.66	17.35	1.770
2-0	19.60	2.000	10.19	26.26	2.680
1-0	27.14	2.769	14.21	38.22	3.900
1	37.24	3.800	19.10	49.78	5.080
2	44.20	4.510	23.52	62.23	6.350

Strength of Needle Attachment

※Data Sources:YY-1116-2002

Size	Average Value		Minimum Value
	N	KGF	N
10-0	0.1	0.014	0.10
9-0	0.2	0.021	0.15
8-0	0.5	0.050	0.24
7-0	0.8	0.080	0.39
6-0	1.7	0.170	0.78
5-0	2.3	0.230	1.08
4-0	4.4	0.450	2.25
3-0	6.7	0.680	3.33
2-0	10.8	1.102	4.41
1-0	14.7	1.500	4.41
1	17.6	1.796	5.88
2	17.6	1.796	6.86