

# OAK TREE<sup>®</sup>

Surgical Sutures

## Sutures Catalog





Committed to your healthcare needs.

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Surgical Sutures

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Surgeon's choice for SAFE and SECURE wound closure.

**OAK TREE®**

**MADE IN KOREA | Sutures**

## Committed to your healthcare needs.

OAK TREE® Sutures aims to provide tailored products to meet the specific needs of the wound closure segment and help healthcare professionals and hospitals nationwide.

OAK TREE® Sutures provides surgeon's choice for safe and secure wound closure. From the beginning, these sutures have been known for its quality—and that legacy of quality continues to meet the demands of surgery professionals nationwide. The precision manufacturing of OAK TREE® Sutures ensure consistent needle strength and durability that holds up to every pass. OAK TREE® Sutures are offered in a variety of absorbable and non-absorbable materials and are attached to needles with superior sharpness, penetration, and strength characteristics. OAK TREE MARKETING is proud to provide the OAK TREE® Sutures, along with flexible and accommodating customer service, and value to its customers.





Surgeon's choice for SAFE and SECURE wound closure.

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**Surgical Suture** is a medical device used to hold body tissues together after an injury or surgery. Application generally involves using a needle with an attached length of suture. A number of different shapes, sizes, and thread materials have been developed over the years.

## **Absorbable VS Non-absorbable**

Sutures that lose the majority of their tensile strength within 60 days are considered absorbable. It is degraded by tissue enzymes or hydrolysis.

- **Absorbable sutures** are generally used as deep sutures; it does not need to be removed post-operatively.
- **Non-absorbable sutures** are used for surface sutures; require manual removal post-operatively.

## **Multifilament VS Monofilament**

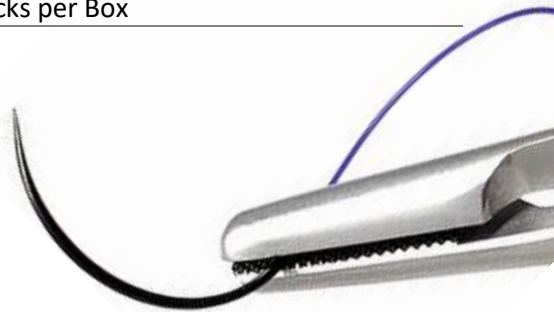
- **Multifilament braided sutures** handle more easily and tie well, but can potentially harbor organisms between fibers leading to increased infection risk. They should be avoided in contaminated wounds. They also tend to have higher capillarity so can absorb and transfer fluid more easily increasing potential for bacteria to enter from the skin surface.
- **Monofilament sutures** have a lower infection risk and a lower coefficient of friction, but with a lower ease of handling and knot security.

**OAK TREE Marketing** offers various kinds of suture material with quality needle which can be **customized** for healthcare professionals.



# SUTURE SPECIFICATIONS:

Item	Range
Needle Size	Smallest: 5.5 mm Largest: 60 mm
Needle Shape	1/4 Circle    3/8 Circle    7/16 Circle 1/2 Circle    5/8 Circle    Hook Circle Straight      Ski Circle      Compound Circle
Needle Point Type	Conventional Cutting Reverse Cutting Taper Cutting Taper Point/ Round Blunt
Suture Size	Absorbable:            USP 12-0 to 10 Non-Absorbable:    USP 12-0 to 5
Suture Length	90 cm, 75 cm, 70 cm, 60cm 45 cm, 30 cm, 20cm
Suture Color	Dyed Undyed
Sterile Packs	Sterile Strands Sterile Needle and Strand
Packaging	12 Sterile Packs per Box



# PRODUCT LABEL:

1. Trade Mark
2. Suture Description and Chemical Composition
3. Product Code
4. Suture Size
5. Needle Length
6. Needle Characteristics
7. Suture Length
8. Sterilization Method
9. Do not re-sterilize and use again
10. Expiry Date: Year and Month
11. Batch Number
12. Company Name
13. Philippine FDA Registration Number



# SUTURE MATERIAL OVERVIEW:

Trademark	Suture	Range	Suture Color	Color Code
OAKCRYL	Polyglactin 910	USP 8/0 to 2 (Violet) USP 6/0 to 2(undyed)	Violet, Undyed	
OAKCRYL RAPID	Polyglactin 910	USP 6/0 to 2	Undyed	
OAKCRYL PLUS	Polyglactin 910 (Antibacterial)	USP 5/0 to 2	Violet, Undyed	
OAKSIN	Polyglycolic Acid	USP 8/0 to 2 (Violet) USP 6/0 to 2 (Undyed)	Violet, Undyed	
MONOAKCRYL	Glycolide-co-caprolactone	USP 6/0 to 2	Violet, Undyed	
PDOAK	Polydioxanone	USP 7/0 to 2	Violet	
	Catgut Plain	USP 6/0 to 6	Natural	
	Chromic Catgut	USP 6/0 to 6	Brown	
OAK SILK	Silk	USP 8/0 to 5	Black, White	
OAKLON	Polyamide	USP 12/0 to 2(black) USP 10/0 to 2 (blue, white)	Black, White, Blue	
OAKLENE	Polypropylene	USP 10/0 to 1	Blue	
PTFE	Polytetra fluoroethylene	USP 6/0 to 2	White	
POLYESTER	Polyester	USP 6/0 to 2	Green, White	

# SUTURE MATERIAL OVERVIEW:

Trademark	Composition	Physical Structure	Color	Remaining Tensile Strength (%)							Complete Mass Absorption	
				Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7		
OAKCRYL	Polyglactin 910	Braided	Violet, Undyed	50%	50%							56-70 days
OAKCRYL RAPID	Polyglactin 910	Braided	Undyed	50%								42 days
OAKCRYL PLUS	Polyglactin 910 (Antibacterial)	Braided	Violet, Undyed	50%	50%							56 days
OAKSIN	Polyglycolic Acid	Braided	Violet, Undyed	50%	50%							60-90 days
MONOAKCRYL	Glycolide-co-caprolactone	Monofilament	Violet, Undyed	50%								90-110 days
PDOAK	Polydioxanone	Monofilament	Violet				50%					180-210 days
	Catgut Plain	Monofilament	Natural	50%								63 days
	Chromic Catgut	Monofilament	Brown	50%								70 days

Absorbable Suture

OAK SILK	Silk	Braided	Black, White									
OAKLON	Polyamide	Monofilament	Black, White, Blue									
OAKLENE	Polypropylene	Monofilament	Blue									
PTFE	Polytetrafluoroethylene	Monofilament	White									
POLYESTER	Polyester	Multifilament	Green, White									

Non-Absorbable Sutures

# PRODUCT RANGE:

## OAKCRYL

**Synthetic  
Absorbable**

Dyed (Violet) or undyed (white) braided Multifilament coated Polyglactin 910 (Glycolide-co lactide)

### Features:

- Coated for consistent and uniform absorption through hydrolysis
- Finer braid for smoother passage and minimal tissue trauma
- Optimum wound support, superior knotting



(Dyed) Violet



(Undyed) White

Tensile Strength	50%	30%
Days	21	28

Complete Absorption	56-70 days
---------------------	------------

## MONOAKCRYL

**Synthetic  
Absorbable**

Dyed (Violet) or undyed (white) Monofilament coated Glycolide-co-caprolactone

### Features:

- High pliability and handling properties
- High tensile strength
- Lower incidence of infection and trauma due to smooth surface
- Reliable absorbability



(Dyed) Violet



(Undyed) White

Tensile Strength	50%	30%
Days	10	17

Complete Absorption	90-110 days
---------------------	-------------

**PDOAK**

**Synthetic  
Absorbable**

Dyed (Violet)  
Multifilament  
Absorbable  
Polydioxanone

**Features:**

- Compliance with the requirements of EP
- High tensile strength
- Lower incidence of infection and trauma due to smooth surface



(Dyed) Violet

Tensile Strength	50%	30%
Days	38	0

Complete Absorption	180-210 days
---------------------	--------------

**OAK SILK**

**Natural  
Non-Absorbable**

Black, White  
Braided  
Multifilament  
Silk

**Features:**

- Excellent handling and tying properties
- High degree of knot security
- High tensile strength



(Undyed) White



(Dyed) Black

**OAKLON**

**Synthetic  
Non-Absorbable**

Blue, White, Black  
Monofilament  
Polyamide (Nylon)

**Features:**

- Physiologically inert, minimal tissue reaction
- Soft and pliable, perfectly smooth and uniform throughout
- High tensile strength with excellent handling and knotting properties



(Undyed) White



(Dyed) Black



**OAKLENE****Synthetic****Non-Absorbable**Blue Monofilament  
Polypropylene**Features:**

- Excellent and permanent tissue support
- Soft passage through the tissue without sawing
- Absence of capillarity with no support of bacterial growth
- Excellent knot tie down



(Dyed) Blue

**PTFE****Synthetic****Non-Absorbable**Undyed  
Monofilament  
Polytetra  
Fluoroethylene**Features:**

- For soft tissue approximation and/or ligation, including dental and general surgeries
- Maintains tensile strength, keeping surgical site reliably closed
- Elicits a minimal acute inflammatory reaction in the tissue



(Undyed) White

**POLYESTER****Synthetic****Non-Absorbable**Green, White  
Multifilament  
Polyethylene  
terephthalate  
Polyester**Features:**

- Maximum security in approximation of tissues under stress conditions
- Maximum security with prosthetic implants
- Permanent support (tensile strength is retained indefinitely)



(Undyed) White



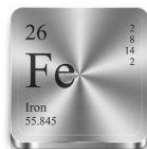
(Dyed) Green

**OAK TREE® needle performance is an output of its design. Materials, geometry, and coatings work together to produce a high-performance surgical instrument.**

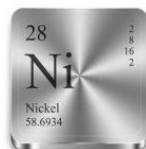


## Proprietary Stainless-Steel Alloy

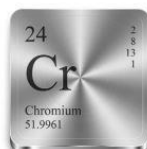
OAK TREE® needles are forged from an alloy of Iron, Nickel, and Chromium. Each element serves a role in delivering strength, ductility, and hardness.



Strength



Ductility



Hardness

## Needle Terminology

**Length:** Distance measured along the circumference of the needle, from the point to the swage. It is depicted on the packaging.

**Shape:** Different surgeries or surgical techniques demand different needle shapes.

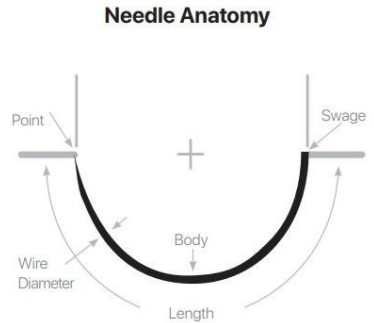
**Point:** The sharpened part of the needle that first penetrates the tissue. The point consists of the area from the sharpened tip of the needle to the widest cross section of the needle body. The point determines ease of penetration and the initial size and shape of the hole.

**Swage:** Connection point of the suture and the needle. Micro teeth grip the suture material and prevent it from slipping out.

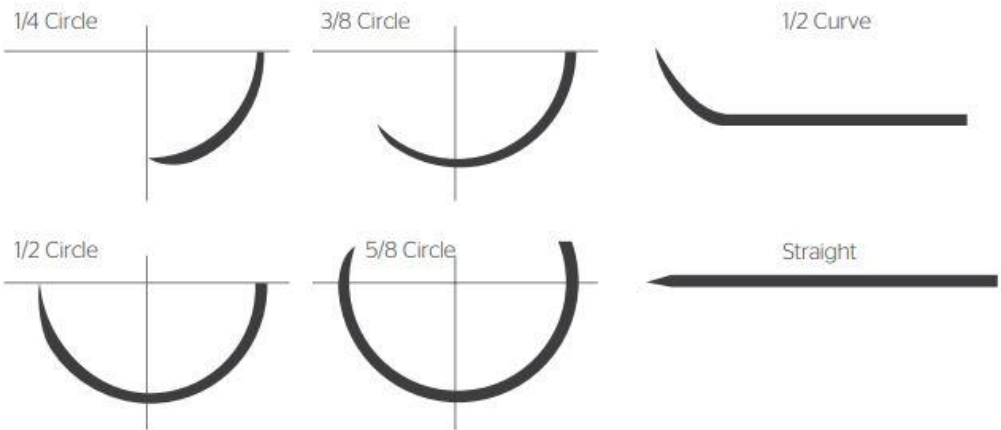
**Wire Diameter:** Gauge or thickness of the wire originally used to form the needle body.








**Body:** The part between the point and the swage of the needle.

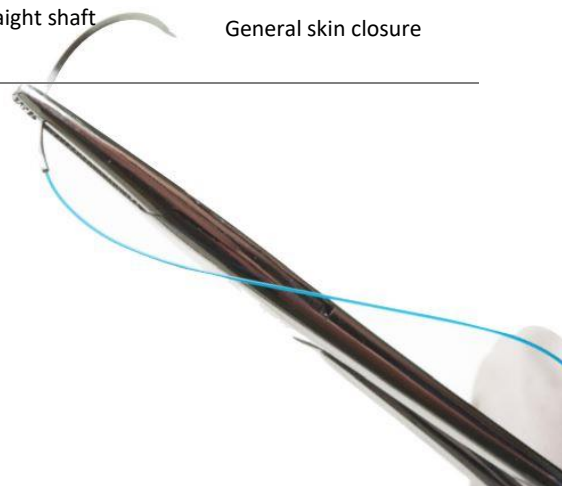
**Included Angle (Curvature):** The fraction of the circle included in the curve of the needle. This is depicted on the packaging.



## Needle Shapes



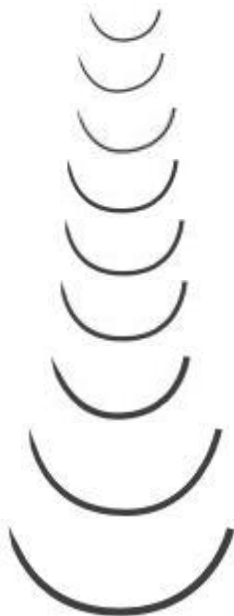
Needle Type	Point Geometry	Description	Commonly Used For
Conventional Cutting		Triangular point with cutting edge on the inner curvature	General skin closure, subcutaneous tissue, sometimes for ophthalmic surgery, plastic or reconstructive surgery
Precision Conventional Cutting		Triangular point with cutting edge on the inner curvature and precision-honed for added sharpness	General skin closure, subcutaneous tissue, sometimes for ophthalmic surgery, plastic or reconstructive surgery
Reverse Cutting		Triangular point with cutting edge on the outer curvature	Skin closure, ligamentous or fibrous tissues
Precision Reverse Cutting		Triangular point with cutting edge on the outer curvature and precision-honed for added sharpness	Primarily used in plastic surgery for delicate procedures and where a good cosmetic result is desired
Taper Point		Round shaft, straight or curved, taper point with no cutting edge	Soft tissue closure such as fascia, vascular, gastrointestinal, and most soft tissue below the skin
Taper Cutting		Four (4) cutting edges with a taper shaft	For penetration through tough tissue
Straight Cutting		Reverse cutting tip on a straight shaft	General skin closure





## 1/2 CIRCLE

REVERSE CUTTING



Needle Oak Tree®	Needle Ethicon®	Needle Length
	PS-5	13 mm
	PS-4	16 mm
_F_17	J-1	17 mm
_F_21		21 mm
_F_22	X-1	22 mm
_F_23		23 mm
_F_26	CP-2	26 mm
_F_36	CP-1	36 mm
_F_40	CP	40 mm



## 1/2 CIRCLE

CONVENTIONAL CUTTING



Needle Oak Tree®	Needle Ethicon®	Needle Length
	PC-12	16 mm

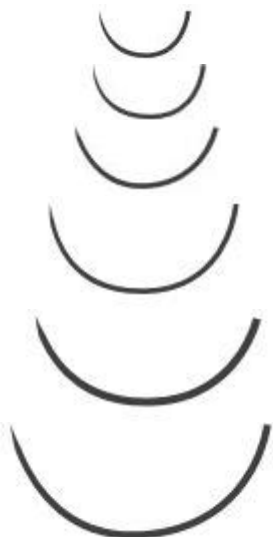


## 1/2 CIRCLE

TAPER POINT/ ROUND



Needle Oak Tree®	Needle Ethicon®	Needle Length
_N_10		10 mm
_N_11	RB-3	11 mm
_N_13	RB-2/TF/UCL	13 mm
_N_16		16 mm

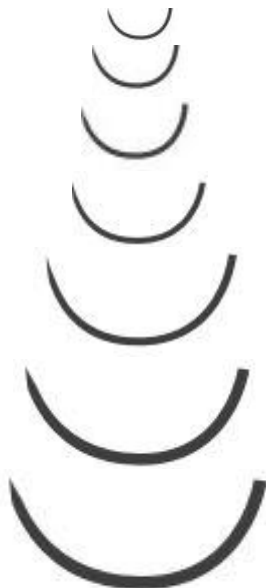


_N_17	RB-1	17 mm
_N_22	SH-1 / CT-3	22 mm
_N_26	SH / CT-2 / CP-2	26 mm
_N_36	MH / CT-1 / CP-1	36 mm
_N_40	CT/CP	40 mm
_N_48	CTX	48 mm



## 1/2 CIRCLE

TAPER CUTTING



Needle Oak Tree®	Needle Ethicon®	Needle Length
_T_13		13 mm
_T_17	V-5	17 mm
_T_21		21 mm
_T_26	V-7	26 mm
_T_36	V-34	36 mm
_T_40	V-37	40 mm
_T_45		45 mm



\_T\_48

V-40

48 mm



## 3/8 CIRCLE

REVERSE CUTTING



Needle Oak Tree®	Needle Ethicon®	Needle Length
_E_8	P-6	8 mm
_E_11	P-1/G-1	11 mm
_E_13	M-2/C-3/ C-2/P-3/G-3/CC	13 mm
_E_16	PS-3	16 mm
_E_19	FS-2/PS-2	19 mm
_E_24	FS-1/PS-1	24 mm
_E_26	FS/PS	26 mm
_E_30	FSL/PSL	30 mm
_E_36	FSLX/PSLX	36 mm



## 3/8 CIRCLE

CONVENTIONAL CUTTING



Needle Oak Tree®	Needle Ethicon®	Needle Length
	PC-1	13 mm
EE_16	PC-3	16 mm
EE_19	PC-5	19 mm
EE_22		22 mm



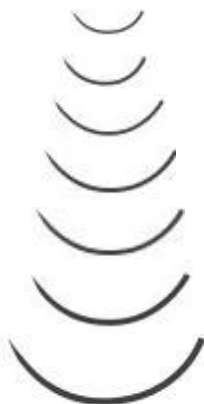
EE\_26

26 mm



### 3/8 CIRCLE

TAPER POINT/ROUND



	Needle Oak Tree®	Needle Ethicon®	Needle Length
	_M_11	BV	11 mm
	_M_13	C-1	13 mm
	_M_17	BB	17 mm
	_M_21		21 mm
	_M_22	BB-1	22 mm
	_M_26		26 mm
		TE	32 mm



### 3/8 CIRCLE

TAPER CUTTING



	Needle Oak Tree®	Needle Ethicon®	Needle Length
	_T_11F		11 mm
	_T_13F	CC-1	13 mm
	_T_15F		15 mm
	_T_17F	V-4	17 mm
	_T_21F		21 mm
	_T_25F		25 mm
	_T_26F	V-26	26 mm





Surgeon's choice for SAFE and SECURE wound closure.

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Got any questions?  
Please call us at +63 917 633 5841

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