

CATALOGUE OF  
**Polyester Suture - NEOBOND**



**CE** **2265**

EN ISO 13485:2016 Certified

 **orion**<sup>TM</sup>  
**SUTURES**

Since 1994

# NEEDLE TYPES



Orion surgical needles are manufactured from highest quality stainless steel grades for outstanding performance, combining high ductility and strong bending moment. Advanced silicon coating ensures smooth penetration and reduced tissue trauma. The shape of the needle body is designed in order to allow maximum stability in the needle holder.

5/8 CIRCLE

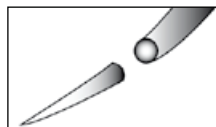
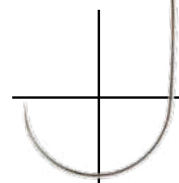
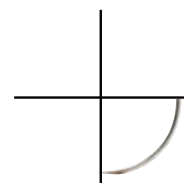
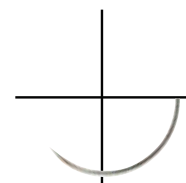
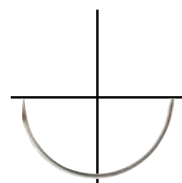
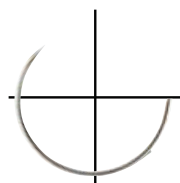
1/2 CIRCLE

3/8 CIRCLE

1/4 CIRCLE

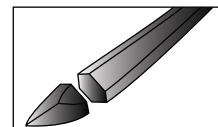
J-NEEDLE

STRAIGHT



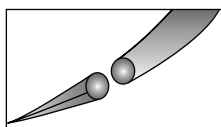
## TAPER POINT

A gradual taper to a round bodied needle.



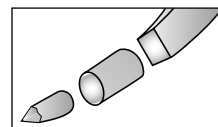
## SIDE CUTTING SPATULA NEEDLES

Needle with cutting edges on the two sides.



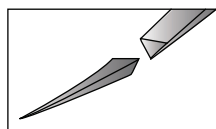
## TAPERCUT POINT

Balanced, cutting point-tapering into a round bodied needle.



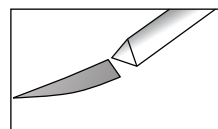
## SOFT CUTTING POINT - CORONARY

A minute point followed by a round body and a rectangular main body for better penetration in cardiovascular surgery.



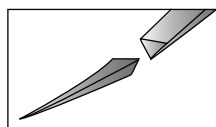
## REVERSE CUTTING

A triangular body offers a third cutting edge on the outer convex curvature.



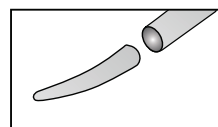
## CONVENTIONAL CUTTING

A triangular body offers a third cutting edge on the inside concave curvature.



## EASY PASS NEEDLE

Precision point with extra sharpening.



## BLUNT NEEDLE

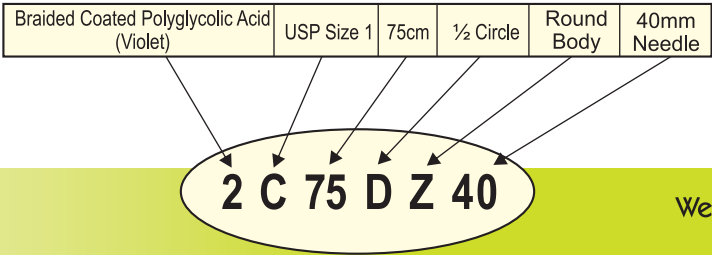
Cylindrical bodied needle with a rounded point. For soft tissue such as in liver and kidneys. Reduced risk of needle stick injuries.

# SUTURE SIZE & DIAMETER



SUTURE SIZE & DIAMETER			
USP SIZE		DIAMETER LIMITS (IN MM)	METRIC SIZE
ABSORBABLE SUTURES (Catgut Chromic & Plain)	NONABSORBABLE & SYNTHETIC ABSORBABLE SUTURES		
-----	10-0	0.020 - 0.029	0.2
-----	9-0	0.030 - 0.039	0.3
-----	8-0	0.040 - 0.049	0.4
-----	7-0	0.050 - 0.069	0.5
-----	6-0	0.070 - 0.099	0.7
6-0	5-0	0.100 - 0.149	1
5-0	4-0	0.150 - 0.199	1.5
4-0	3-0	0.200 - 0.249	2
3-0	2-0	0.300 - 0.339	3
2-0	0	0.350 - 0.399	3.5
0	1	0.400 - 0.499	4
1	2	0.500 - 0.599	5
2	3 & 4	0.600 - 0.699	6
3	5	0.700 - 0.799	7

PRODUCT EXPORT CODE INFORMATION OF ORION SUTURES									
Code	PRODUCT	Code 2	USP Size	Code 3	Code 4	Needle Curvature	Code 5	Needle Type	Code 6
1	Braided & Coated Polyglycolic Acid (Undyed)	A	3	Suture Length in Centimetre(cm)	A	Straight Circle	Z	Round Body / Taper Point	Needle Length in mm
2	Braided & Coated Polyglycolic Acid (Violet)	B	2		B	1/4 Circle	Y	Cutting	
3	Monofilament Polyamide (Nylon)	C	1		C	3/8 Circle	X	Reverse Cutting	
4	Catgut Chromic	D	0		D	1/2 Circle	K	Taper Cutting	
5	Black Braided Silk	E	2-0		E	5/8 Circle	T	Trocar Point	
6	Braided Polyester	F	3-0				R	Blunt Point	
7	Catgut Plain	G	4-0				S	Spatula	
8	Monofilament Polypropylene	H	5-0						
9	Monofilament Polydioxanone	I	6-0						
10	Polyglactin 910 (Violet)	J	7-0						
11	Monofilament Poliglecaprone 25	K	8-0						
12	Braided & Coated Polyglactin 910 (Undyed)	L	9-0						
		M	10-0						



Synthetic Non Absorbable Surgical Suture

**NEOBOND (Polyester Suture)** is a non absorbable, braided, sterile, surgical suture composed of Poly (ethylene terephthalate). It is prepared from fibers of high molecular weight, long-chain, linear polyesters having recurrent aromatic rings as an integral component. The suture is uniformly coated with polybutylate or poly {oxy-1, 4 butanediyl oxy (1, 6-dioxo-1, 6 hexanediyl)}. The highly adherent coating is a relatively nonreactive non absorbable compound which acts as a lubricant to mechanically improves the physical properties of the uncoated suture by improving handling qualities as contrasted to the braided, uncoated fiber. NEOBOND Suture is braided for optimal handling properties, and dyed green for enhanced visibility.

Type	: Braided multifilament
Material	: Polyester - a polymer of polyethylene terephthalate coated with Silicone, Teflon
Color	: Green
Tissue reaction	: Minimal
Absorption	: Non absorbable, gradually encapsulated by connective tissue
Tensile Strength	: Excellent tensile strength, Excellent knot tying, Minimum tissue reaction
USP Range	: 5/0 – 5
Sterilization	: EO (Ethylene Oxide)
Needle Type	: Round bodied, cutting edge, taper point, straight, blunt point
Packing	: In aluminium foil packages/ Medical Grade ETO Pouches with or without needle

CHARACTERISTICS

- ☑ Unsurpassed tensile strength, non absorbable
- ☑ Resistance to repeated bending
- ☑ Synthetic
- ☑ Braided structure
- ☑ Coated multifilament
- ☑ Hermetically sealed packing

BENEFITS

- Excellent and permanent tissue support
- Use in cardiovascular surgery (heart prosthesis)
- Minimal tissue reaction
- Excellent handling properties, High flexibility, High tensile strength. Excellent knot security
- Soft passage through the tissues with minimal sawing, tissue drag and trauma. Good knot tie down / adjustability. Reduced capillary action
- Guaranteed seal and product sterility

INDICATIONS

General soft tissue closing and/or ligation especially in General surgery, Skin closure, Ophthalmic surgery  
Oral surgery, Gastrointestinal surgery, Gynaecology, Obstetrics.

# ORION SUTURES DOMESTIC BOX PACKING



## ORION SUTURES EXPORT BOX PACKING



**Orion Sutures (India) Pvt. Ltd.**

No.138-B, 2nd & 3rd Floor, "Udayagiri Complex", 3rd Phase,  
KIADB Industrial Area, Peenya, Bangalore - 560058. INDIA.

Tel : 080 4121 5055 | E-mail : mail@orionsutures.com

Website : www.orionsutures.com

License No - MFG/MD/2021/000276

**CE 2265**

EN ISO 13485:2016 Certified