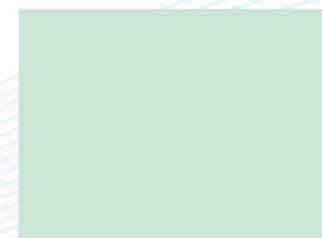
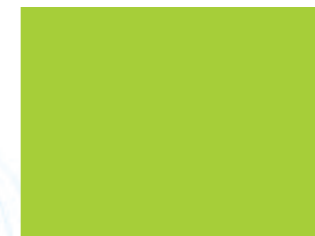
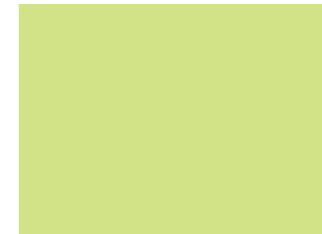




## Surgical Sutures & Mesh



### Ishwari Healthcare Pvt. Ltd.

An ISO 9001:2008 & 13485:2003 Certified Company

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Ishwari Healthcare Pvt. Ltd.

[www.ishwarihealthcare.com](http://www.ishwarihealthcare.com)

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## Company Profile

The groundwork for a  
**Healthy Life**



### About Us

Ishwari Healthcare Pvt. Ltd. is a progressive & innovative company dedicated to serve world market by providing superior services, user-friendly and state-of-the-art Healthcare Disposables & Devices conforming to International standards at competitive prices. Incorporated in year 1998, the Company has created distinct identity in short span of time. Putting technology to the best use combined with the spirit of innovativeness and creativity, the Company is providing world-class products to cater the needs of global customers more effectively and efficiently.

Patient safety and comfort are of the highest concern in our industry and so we strive to produce high quality, trustworthy products, with superior functionality so as to make this world a better place to live.

### Manufacturing



The medical & technical professionals committed to updating with the technological advancement in the field are manufacturing the products. The production is carried out in a harmonious environment within process quality control to the highest consistency with traceability and documentation. Production facilities have been constructed and maintained in line with the Good Manufacturing Practices (GMP).

The products are manufactured in an advanced and integrated plant having in-house ultra modern facilities for production and equipped with all kinds of latest machineries, blister packaging, ethylene oxide gas sterilization, and a class 10,000 clean room for assembly line validating highest level of clinical safety. Disposable medical devices are sterilized by ethylene oxide gas complying with the requirements of EN 550.



### Quality Edge

Quality is our most successful attribute & is given big emphasis. There is an intensive check at every stage of production. Production process documentation ensures "defect-free" consistent quality of our products. All raw materials and finished products are submitted to stringent quality control by a highly qualified team and all products are tested for clinical safety and continuously monitored for bio-burden, endotoxins and sterility etc.

All our products are designed and manufactured to meet the requirements of International quality standards such as ISO and EN standards. In continuing with our quality initiative, the Company has audited and certified for the compliance to ISO 9001:2008, ISO 13485:2012 & "CE" Certification (product compliance with European Medical Devices Directive - MDD 93/42/EEC).

### Dedicated Team



We uphold the view that company's real assets & key strengths are the group of well-experienced and well-trained employees managing various departments. This team of most dedicated, vigilant, technically competent and quality conscious personnel ensures that they understand every requirement of our client and devise a particle product delivery plan.



### Exports

The Company set its foot firmly on foreign soil. Export dealings automatically engender a quality orientation. Driven by these considerations, we rule out any compromise on quality. The Company's export-orientation has created markets for its product across the globe.

With Total Quality Management and sincere customer oriented culture, Ishwari Healthcare has carved a niche for itself in the domestic and global markets.

# Surgical Suture

Surgical Suture is used to close the edges of a wound or incision and to repair damaged tissue.

Physicians have used sutures for at least 4,000 years. Archaeological records from ancient Egypt show that Egyptians used linen and animal sinew to close wounds. In ancient India, physicians used the heads of beetles or ants to effectively staple wounds shut. Other natural materials doctors used in ancient times were hair, grass, cotton, silk, pig bristles, and animal gut.

## Materials Used:

In today's era, a range of suture materials are available, which includes natural absorbable and non absorbable sutures and synthetic absorbable and non absorbable sutures.

Natural sutures are made of catgut or reconstituted collagen, or from cotton, silk, or linen. Some sutures are also made of stainless steel. Because of the material, tissue reaction is often greater with natural sutures, especially those that are absorbable (e.g. Catgut). Coating agents are often used to help reduce tissue reactivity and to help reduce friction.

Silk was the next suture of choice in non-absorbable suture range and has become very popular because of its excellent handling properties. The Natural non-absorbable sutures had certain disadvantages and with technology advancements, Polyester and Polyamide were introduced and replaced previous non-absorbable sutures.

Synthetic sutures are made from synthetic collagen derived from polymers. Synthetic sutures are broken down by hydrolysis as opposite to enzymatic degradation (natural sutures), causing less tissue reaction. Synthetic absorbable sutures may be made of polyglycolic acid, a glycolide-lactide copolymer; or polydioxanone, a copolymer of glycolide and trimethylene carbonate. Synthetic non absorbable sutures may be made of polypropylene, polyester, polyethylene terephthalate, polybutylene terephthalate, polyamide, different proprietary nylons.

Sutures are often coated, especially braided or twisted sutures. They may also be dyed to make them easy to see during surgery. Some allowable dyes are: chromium-cobalt-aluminum oxide, ferric ammonium citrate pyrogallol. The coatings used depend on whether the suture is absorbable or nonabsorbable. Absorbable coatings include calcium stearate with a glycolide-lactide copolymer. Nonabsorbable sutures may be coated with wax, silicone, fluorocarbon, or polytetramethylene adipate.

Suture needles are made of stainless or carbon steel. The needles may be nickel-plated or electroplated. Sutures needles of different types, size and curvature are available ranging from 4 mm to 60 mm in length and from 200 micron to as thick as size 6 of the suture in diameter.

Packaging material includes water-resistant foil, such as aluminum foil, as well as cardboard and plastic.

## Suture Design:

Sutures are designed to meet many different needs. The needs depend on the type of surgery, the location where suture is intended to be used, the elasticity required in certain tissues, rate at which suture is degraded, knot security, and lastly on individual preference of the doctor.

Keeping all these factors in consideration, a range of sutures are manufactured using specially designed machines, and subjecting them to quality control tests for diameter, length, strength of the suture and how needle is secured to the suture.

## The Manufacturing Technique:

The process of suture manufacturing involves polymerization of raw material and extruding it in to fiber, which is then stretched and braided on machines.

The principle for maximizing the patient benefit and comfort and maintaining the highest level of competency through ultramodern technology is used as a model here, the basic requirements being those applicable to quality management, personnel, premises and equipment, document, production, quality control, analysis, complaints and product recall, and self-inspection.

At **Ishwari Healthcare**, we have always been thriving to produce products that are technologically and clinically conforming to international standard.

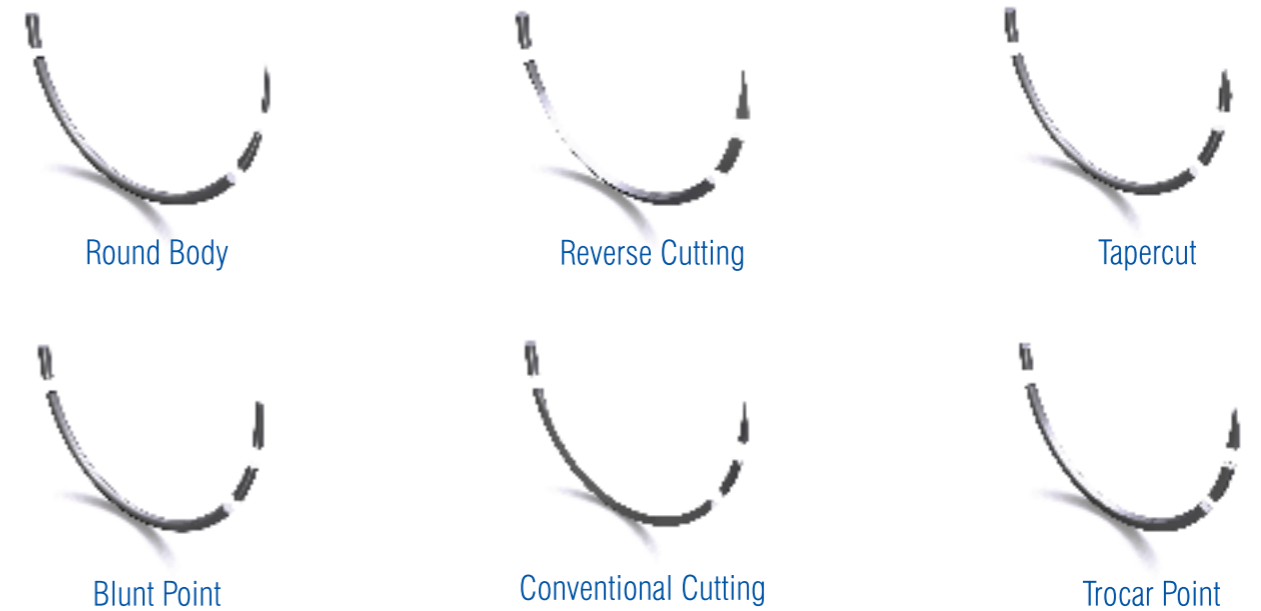
## Essential Suture Characteristics

- Sterile
- Inert (non reactive)
- Uniform diameter and size
- High tensile strength retention
- Can be used in any surgical procedure
- Easy to handle and ties down well
- Knot is absolutely secure and is absorbed once the purpose is over

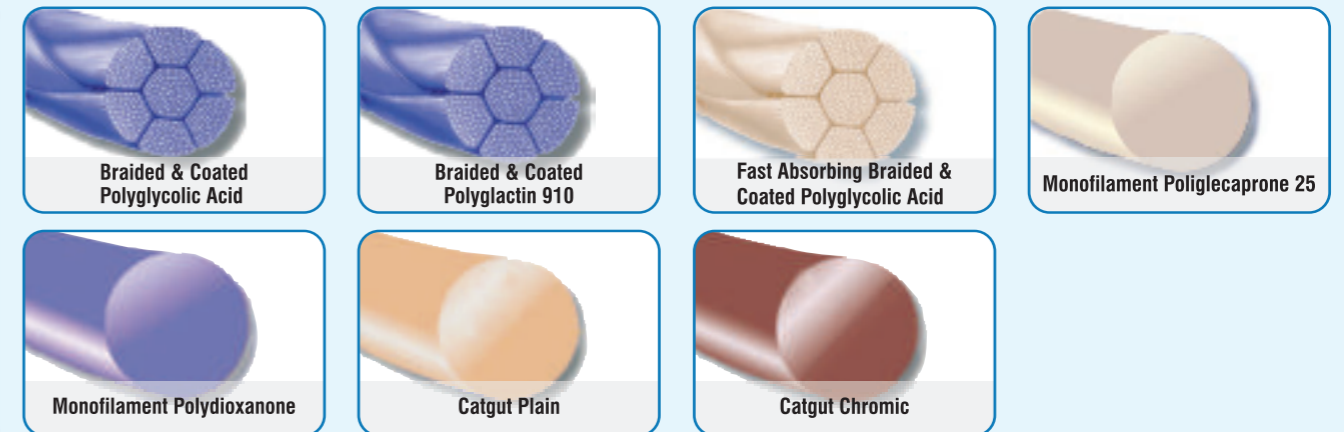
## NEEDLE SHAPE



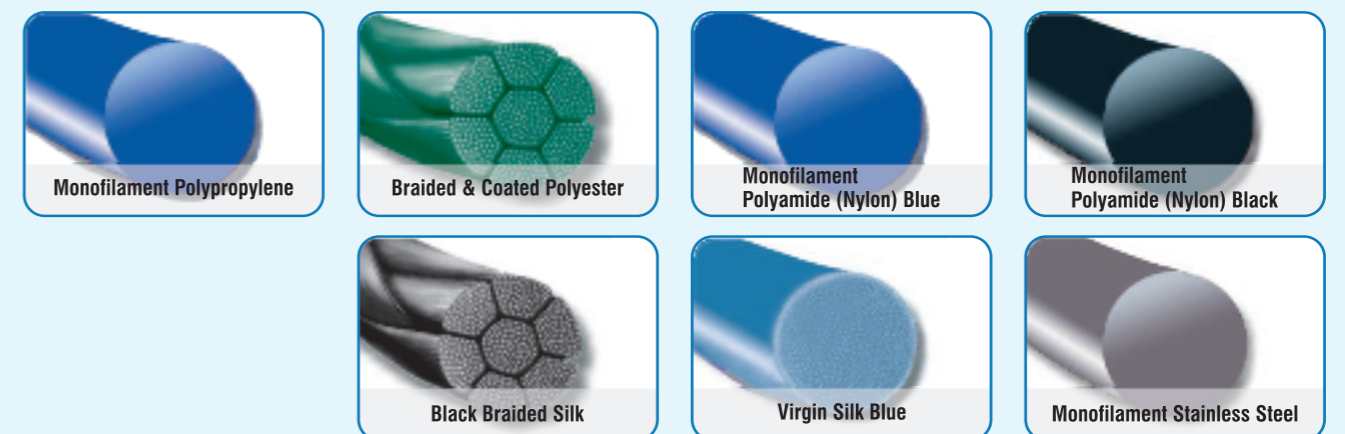
## NEEDLE PROFILE



## ABSORBABLE SUTURES



## NON ABSORBABLE SUTURES



# PROCRYL

## BRAIDED & COATED POLYGLYCOLIC ACID (PGA) SUTURE



- Description** : Polyglycolic Acid, better known as PGA, is composed of polymers of glycolide acids. PGA sutures are coated, braided, versatile synthetic absorbable sterile surgical suture for medium term wound support with highest tensile strength. It is an ideal and time tested synthetic absorbable suture, widely used by surgeons all over the world. PROCRYL sutures raw material is FDA USA approved. It retains its original tensile strength until the wound has achieved adequate stability. It is coated with non-toxic and bio-compatible material called polycaprolactone calcium stearate which facilitates smooth passage through tissues and firm knotting. Compared to other synthetic absorbable suture material available which is rough and stiff, PROCRYL is smooth and flexible.
- Special Features** : Predictable absorption, excellent tensile strength, excellent knot security, minimal tissue reaction, excellent handling properties, smooth tissue passage, outstanding pliability
- Material** : 100% Polyglycolic Acid- Braided & Coated
- Structure** : Braided
- Coating Material** : Calcium stearate and Polycaprolactone
- Colour** : Violet & Undyed
- Wound Support** : Medium term, 27-30 days
- Absorption Profile** : 60-90 days, absorbed by hydrolysis
- Sterilization** : Ethylene oxide
- Shelf Life** : 5 years
- Applications** : General closure, ophthalmic, orthopaedics, obstetrics / gynaecology, gastrointestinal tract surgery
- U.S.P. Range** : Gauge sizes 8-0 to 2, supplied as needed sutures and ligatures

# PROCRYL

## BRAIDED & COATED POLYGLYCOLIC ACID SUTURE



### Atraumatic Needles and Sutures

NEEDLE			SUTURE					
Length	Profile	Description	Length	Size (USP)				
				8-0 (0.4)	7-0 (0.5)	6-0 (0.7)		
6 mm	3/8 Circle	Micropoint Spatulated	30 cm	INW 2348	INW 2561			
8 mm Double Armed	1/4 Circle	Micropoint Spatulated	45 cm			INW 2670		
Length	Profile	Description	Length	5-0 (1)	4-0 (1.5)	3-0 (2)	2-0 (3)	1 (4)
12 mm	3/8 Circle	Reverse Cutting	45 cm	INW 2493	INW 2494	INW 2495		
16 mm	5/8 Circle	Cutting	45 cm		INW 2465			
16 mm	3/8 Circle	Cutting	45 cm 70 cm Undyed	INW 2442	INW 2443 INW 2443U	INW 2471		
16 mm	1/2 Circle	Round Bodied	45 cm 70 cm	INW 2303	INW 2305			
17 mm	1/2 Circle	Taper Cutting	45 cm			INW 2515		
20 mm	1/2 Circle	Round Bodied	70 cm		INW 2304	INW 2437		
22 mm	3/8 Circle	Cutting	45 cm		INW 2371	INW 2401		
22 mm	1/2 Circle	Cutting	90 cm			INW 2472		
23 mm HEAVY	1/2 Circle	Reverse Cutting	35 cm 70 cm					INW 2826S INW 2826
26 mm	3/8 Circle	Cutting	45 cm 90 cm 90 cm Undyed		INW 2481	INW 2404 INW 2404U		
26 mm	3/8 Circle	Reverse Cutting	76 cm Undyed		INW 2407U			

Atraumatic Needles and Sutures

NEEDLE			SUTURE				
Length	Profile	Description	Length	Size (USP)			
			3-0 (2)	2-0 (3)	1-0 (3.5)	1 (4)	2 (5)
30 mm	1/2 Circle	Round Bodied	70 cm	INW 2341	INW 2342		
			90 cm	INW 2317	INW 2338		
30 mm HEAVY	1/2 Circle	Round Bodied	20 cm		INW 2344	INW 2343	
30 mm	1/2 Circle	Taper Cutting	20 cm	INW 2511S	INW 2512S	INW 2513S	
			45 cm	INW 2511M	INW 2512M	INW 2513M	
			90 cm	INW 2511	INW 2512	INW 2513	
30 mm	1/2 Circle	Reverse Cutting	90 cm		INW 2535		
36 mm	1/2 Circle	Taper Cutting	90 cm	INW 2516	INW 2517		
36 mm	1/2 Circle	Reverse Cutting OR Needle	90 cm		INW 2534		
40 mm	1/2 Circle	Round Bodied	20 cm		INW 2346S		
			45 cm	INW 2345M	INW 2346M		
			70 cm		INW 2546		
			90 cm	INW 2345	INW 2346	INW 2360	
			110 cm		INW 2346VS		
40 mm HEAVY	1/2 Circle	Round Bodied	20 cm		INW 2347S		
			45 cm		INW 2347M		
			70 cm		INW 2359		
			70X2		INW 2359DS		
			90 cm		INW 2347	INW 2352	
			110 cm		INW 2347VS	INW 2352VS	
40 mm	1/2 Circle	Taper Cutting	45 cm	INW 2361			
			90 cm	INW 2517	INW 2518	INW 2519	
			110 cm		INW 2518VS		
40 mm HEAVY	1/2 Circle	Taper Cutting	45 cm		INW 2362		
			70 cm		INW 2363		
			90 cm		INW 2364		
			110 cm		INW 2364VS		
40 mm	1/2 Circle	Reverse Cutting	45cm	INW 2382S			
			90 cm	INW 2382	INW 2422	INW 2350	INW 2351
			90 cm Undyed	INW 2382U			

Atraumatic Needles and Sutures

NEEDLE			SUTURE			
Length	Profile	Description	Length	Size (USP)		
			4-0 (1.5)	1-0 (3.5)	1 (4)	2 (5)
40 mm	1/2 Circle	Reverse Cutting OR Needle	90 cm		INW 2421	
40 mm	1/2 Circle	Round Bodied Taper Cutting	140 cm		INW 2346DA	
			160 cm		INW 2060	
			180 cm		INW 2080	
40 mm HEAVY	1/2 Circle	Round Bodied Taper Cutting	140 cm		INW 2347DA	
			160 cm		INW 2160	
			180 cm		INW 2180	
45 mm	3/8 Circle	Round Bodied	70 cm		INW 2326	
45 mm	Straight	Cutting	90 cm	INW 2388		
Length	Profile	Description	Length	Size (USP)		
			3-0 (2)	2-0 (3)	1 (4)	2 (5)
50 mm HEAVY	1/2 Circle	Round Bodied	75 cm			INW 2355
			100 cm		INW 2448	
			110 cm		INW 2448VS	
50 mm HEAVY	1/2 Circle	Reverse Cutting	90 cm		INW 2438	INW 2353
60 mm	Straight	Cutting	76 cm		INW 2390	
			90 cm			INW 2354
			90 cm Undyed	INW 2389		
Pre-Cut Sutures (Non-Needed)						
Length	Size (USP)					
	3-0 (2)	2-0 (3)	1-0 (3.5)	1 (4)		
1 X 150 cm	WN 2612	WN 2613	WN 2614	WN 2615		

# PROCRYL 910

BRAIDED & COATED POLYGLACTIN 910 SUTURE



- Description** : PROCRYL 910 sutures are coated, braided, synthetic absorbable, sterile surgical suture for medium term wound support with well proven record and composition. The suture's tensile strength remains for approximately three to four weeks in tissue. It has a unique molecular structure which cause the suture to retain its strength over the critical wound healing period and then allows rapid absorption after the suture has served its purpose. Polyglactin 910 sutures are found to be non-antigenic and non-pyrogenic, eliciting only mild tissue reactivity during the absorption process.
- Special Features** : Excellent tensile strength, predictable absorption by simple hydrolysis, precise knot placement as compared with PGA suture, minimal tissue reaction, coating ensures smooth tissue passage
- Material** : 90% Glycolide and 10% L-lactide
- Structure** : Braided
- Coating** : Polycaprolactone & calcium stearate
- Colour** : Violet & Undyed
- Wound Support** : Medium term, 28-30 days
- Absorption Profile** : 56-70 days, absorbed by hydrolysis
- Sterilization** : Ethylene oxide
- Shelf Life** : 5 years
- Applications** : General soft tissue approximation, superficial closure of mucosa, skin closure, dental surgery, orthopaedic surgery
- U. S. P. Range** : Gauge sizes 8-0 to 2, supplied as needed sutures and ligatures

# PROCRYL 910

BRAIDED & COATED  
POLYGLACTIN 910 SUTURE



Atraumatic Needles and Sutures

NEEDLE			SUTURE					
Length	Profile	Description	Length	Size (USP)				
				8-0 (0.4)	7-0 (0.5)	6-0 (0.7)		
6 mm	3/8 Circle	Micropoint Spatulated	30 cm	INW 2348-9	INW 2561-9			
8 mm Double Armed	1/4 Circle	Micropoint Spatulated	45 cm			INW 2670-9		
Length	Profile	Description	Length	5-0 (1)	4-0 (1.5)	3-0 (2)	2-0 (3)	1 (4)
12 mm	3/8 Circle	Reverse Cutting	45 cm	INW 2493-9	INW 2494-9	INW 2495-9		
16 mm	5/8 Circle	Cutting	45 cm		INW 2465-9			
16 mm	3/8 Circle	Cutting	45 cm 70 cm Undyed	INW 2442-9	INW 2443-9 INW 2443U-9	INW 2471-9		
16 mm	1/2 Circle	Round Bodied	45 cm 70 cm	INW 2303-9	INW 2305-9			
17 mm	1/2 Circle	Taper Cutting	45 cm			INW 2515-9		
20 mm	1/2 Circle	Round Bodied	70 cm		INW 2304-9	INW 2437-9		
22 mm	3/8 Circle	Cutting	45 cm		INW 2371-9	INW 2401-9		
22 mm	1/2 Circle	Cutting	90 cm			INW 2472-9		
23 mm HEAVY	1/2 Circle	Reverse Cutting	35 cm 70 cm					INW 2826S-9 INW 2826-9
26 mm	3/8 Circle	Cutting	45 cm 90 cm 90 cm Undyed		INW 2481-9	INW 2404-9 INW 2404U-9		
26 mm	3/8 Circle	Reverse Cutting	76 cm Undyed		INW 2407U-9			

Atraumatic Needles and Sutures

NEEDLE			SUTURE					
Length	Profile	Description	Length	Size (USP)				
			3-0 (2)	2-0 (3)	1-0 (3.5)	1 (4)	2 (5)	
30 mm	1/2 Circle	Round Bodied	70 cm	INW 2341-9	INW 2342-9			
			90 cm	INW 2317-9	INW 2338-9			
30 mm	1/2 Circle	Taper Cutting	20 cm	INW 2511S-9	INW 2512S-9	INW 2513S-9		
			45 cm	INW 2511M-9	INW 2512M-9	INW 2513M-9		
			90 cm	INW 2511-9	INW 2512-9	INW 2513-9		
30 mm	1/2 Circle	Reverse Cutting	90 cm		INW 2535-9			
36 mm	1/2 Circle	Taper Cutting	90 cm	INW 2516-9		INW 2517-9		
36 mm	1/2 Circle	Reverse Cutting OR Needle	90 cm		INW 2534-9			
40 mm	1/2 Circle	Round Bodied	20 cm		INW 2346S-9			
			45 cm	INW 2345M-9	INW 2346M-9			
			70 cm		INW 2546-9			
			90 cm	INW 2345-9	INW 2346-9	INW 2360-9		
			110 cm		INW 2346VS-9			
40 mm HEAVY	1/2 Circle	Round Bodied	20 cm		INW 2347S-9			
			45 cm		INW 2347M-9			
			70 cm		INW 2359-9			
			70X2 cm		INW 2359DS-9			
			90 cm		INW 2347-9	INW 2352-9		
			110 cm		INW 2347VS-9	INW 2352VS-9		
40 mm	1/2 Circle	Taper Cutting	45 cm	INW 2361-9				
			90 cm	INW 2517-9	INW 2518-9	INW 2519-9		
			110 cm		INW 2518VS-9			
40 mm HEAVY	1/2 Circle	Taper Cutting	45 cm		INW 2362-9			
			70 cm		INW 2363-9			
			90 cm		INW 2364-9			
			110 cm		INW 2364VS-9			
40 mm	1/2 Circle	Reverse Cutting	45cm	INW 2382S-9				
			90 cm	INW 2382-9	INW 2422-9	INW 2350-9	INW 2351-9	
			90 cm Undyed	INW 2382U-9				

Atraumatic Needles and Sutures

NEEDLE			SUTURE					
Length	Profile	Description	Length	Size (USP)				
			4-0 (1.5)	1-0 (3.5)	1 (4)	2 (5)		
40 mm	1/2 Circle	Round Bodied Taper Cutting	140 cm	INW 2346DA-9				
		Double Armed	160 cm	INW 2060-9				
			180 cm	INW 2080-9				
40 mm HEAVY	1/2 Circle	Round Bodied Taper Cutting	140 cm		INW 2347DA-9			
		Double Armed	160 cm		INW 2160-9			
			180 cm		INW 2180-9			
45 mm	Straight	Cutting	90 cm	INW 2388-9				
Length	Profile	Description	Length	Size (USP)				
			3-0 (2)	2-0 (3)	1 (4)	2 (5)		
50 mm HEAVY	1/2 Circle	Round Bodied	75 cm			INW 2355-9		
			100 cm		INW 2448-9			
			110 cm		INW 2448VS-9			
50 mm HEAVY	1/2 Circle	Reverse Cutting	90 cm		INW 2438-9	INW 2353-9		
60 mm	Straight	Cutting	76 cm	INW 2390-9				
			90 cm			INW 2354-9		
			90 cm Undyed	INW 2389-9				
Pre-Cut Sutures (Non-Needed)								
Length	Size (USP)							
	3-0 (2)	2-0 (3)	1-0 (3.5)	1 (4)				
1 X 150 cm	WN 2612-9	WN 2613-9	WN 2614-9	WN 2615-9				

# PROCRYL 910 Plus

(Chlorhexidine Diacetate Antimicrobial Coated)

ANTIMICROBIAL COATED & BRAIDED  
POLYGLACTIN 910 SUTURE



Atraumatic Needles and Sutures

NEEDLE			SUTURE					
Length	Profile	Description	Length	Size (USP)				
				5-0 (1)	4-0 (1.5)	3-0 (2)	2-0 (3)	1 (4)
16 mm	5/8 Circle	Cutting	45 cm		INWA 2465-9			
16 mm	1/2 Circle	Round Bodied	45 cm	INWA 2303-9				
20 mm	1/2 Circle	Round Bodied	70 cm	INWA 2304-9				
			90 cm	INWA 2437-9				
22 mm	3/8 Circle	Cutting	45 cm	INWA 2401-9				
22 mm	1/2 Circle	Cutting	90 cm	INWA 2472-9				
23 mm HEAVY	1/2 Circle	Reverse Cutting	35 cm	INWA 2826-9S				
			70 cm	INWA 2826-9				
24 mm	3/8 Circle	Reverse Cutting	70 cm	INWA 2936-9				
			70 cm Undyed	INWA 936-9				
25 mm	3/8 Circle	Cutting	90 cm Undyed	INWA 2328-9				
26 mm	3/8 Circle	Cutting	90 cm Undyed	INWA 2404U-9				
Length	Profile	Description	Length	Size (USP)				
				3-0 (2)	2-0 (3)	1-0 (3.5)	1 (4)	
30 mm	1/2 Circle	Round Bodied	70 cm	INWA 2341-9				
			90 cm	INWA 2317-9 INWA 2338-9				
36 mm	1/2 Circle	Round Bodied	90 cm Undyed	INWA 945-9 INWA 946-9 INWA 947-9				
36 mm	1/2 Circle	Taper Cutting	90 cm	INWA 2516-9				

# PROCRYL 910 Plus

(Chlorhexidine Diacetate Antimicrobial Coated)

ANTIMICROBIAL COATED & BRAIDED  
POLYGLACTIN 910 SUTURE



Atraumatic Needles and Sutures

NEEDLE			SUTURE				
Length	Profile	Description	Length	Size (USP)			
				2-0 (3)	1-0 (3.5)	1 (4)	2 (5)
36 mm	1/2 Circle	Reverse Cutting	90 cm	INWA 2534-9			
40 mm	1/2 Circle	Round Bodied	90 cm	INWA 2345-9	INWA 2346-9	INWA 2360-9	
40 mm HEAVY	1/2 Circle	Round Bodied	70 cm				INWA 2359-9
			90 cm				INWA 2347-9
			120 cm				INWA 2350-9
40 mm	1/2 Circle	Taper Cutting	90 cm	INWA 2518-9			INWA 2519-9
40 mm	1/2 Circle	Reverse Cutting	45 cm	INWA 2382S-9			
			90 cm	INWA 2382-9	INWA 2422-9		INWA 2351-9
			90 cm Undyed	INWA 2382U-9			
40 mm HEAVY	1/2 Circle	Reverse Cutting	90 cm	INWA 2421-9			



# PROCRYL 910 Rapid

FAST ABSORBING BRAIDED & COATED POLYGLACTIN 910 SUTURE



- Description** : PROCRYL 910 Rapid sutures are coated, braided, synthetic fast absorbable sterile surgical suture for short term wound support. PROCRYL 910 Rapid sutures is specially coated in order to create a smoother suture that will pass through tissue easily and since the suture is white (undyed) it can be easily visible during suturing. Due to the low molecular weight compared to regular Polyglactin 910 or Polyglycolic Acid Sutures, PROCRYL 910 Rapid sutures achieve rapid absorption in the tissues. It is a much superior alternative to catgut sutures since its absorption is more predictable, tensile strength is better and it exhibits little or no tissue reaction. PROCRYL 910 Rapid sutures absorbs quickly, hence it is ideal in cases where short term tissue approximation is required.
- Special Features** : Excellent knot security, easy knot placement, absorbs quickly hence it is ideal in cases where short term tissue approximation is required, coating ensures smooth tissue passage
- Material** : 90% Glycolide and 10% L-lactide
- Structure** : Braided
- Coating** : Polycaprolactone & calcium stearate
- Colour** : Undyed
- Wound Support** : Short term, 7-10 days
- Absorption Profile** : 40-42 days, absorbed by hydrolysis
- Sterilization** : Ethylene oxide
- Shelf Life** : 5 years
- Applications** : General soft tissue approximation and/or ligation, including use in ophthalmic procedures
- U. S. P. Range** : Gauge sizes 6-0 to 2, supplied as needed sutures and ligatures

# PROCRYL 910 Rapid

FAST ABSORBING BRAIDED & COATED POLYGLACTIN 910 SUTURE



Atraumatic Needles and Sutures

NEEDLE			SUTURE				
Length	Profile	Description	Length	Size (USP)			
				6-0 (0.7)	5-0 (1)	4-0 (1.5)	3-0 (2)
12 mm	3/8 Circle	Cutting	45 cm	INW 9913	INW 9915		
16 mm	3/8 Circle	Cutting	45 cm			INW 2718	INW 2719
22 mm	1/2 Circle	Cutting	70 cm				INW 2735
Length	Profile	Description	Length	Size (USP)			
				4-0 (1.5)	3-0 (2)	2-0 (3)	1-0 (3.5)
26 mm	3/8 Circle	Reverse Cutting	45 cm 70 cm		INW 2732S INW 2732		
36 mm	1/2 Circle	Round Bodied	90 cm 100 cm			INW 2761RB	INW 2036
36 mm	1/2 Circle	Taper Cutting	70 cm 90 cm			INW 2762S INW 2762	INW 2763
36 mm	3/8 Circle	Reverse Cutting	60 cm			INW 2720	
36 mm	1/2 Circle	Round Bodied Reverse Cutting	140 cm			INW 2777	
40 mm Heavy	1/2 Circle	Round Bodied	100 cm				INW 2710
40 mm	1/2 Circle	Taper Cutting	70 cm 110 cm				INW 2763ML INW 2763SP

# PROCRYL MONO

MONOFILAMENT POLIGLECAPRONE 25 SUTURE



- Description** : PROCRYL MONO sutures are synthetic, absorbable, sterile, surgical monofilament suture with excellent smoothness and pliability for short-medium term wound support. Being monofilament, the suture is smooth, making it easier to pass through the tissues as compared to braided suture. Minimal tissue reaction and predictable absorption makes it as replacement suture for chromic catgut sutures.
- Special Features** : Smooth and least tissue drag, higher initial tensile strength, excellent bending and breaking resistance of needle, less tissue reaction and predictable absorption, better knot security, easy to handle, minimized risk of suture line infection
- Material** : Monofilament Poliglecaprone 25
- Structure** : Monofilament
- Colour** : Undyed / Dyed (Violet)
- Wound Support** : Short-medium term, 21 days
- Absorption Profile** : 90-120 days, absorbed by hydrolysis
- Sterilization** : Ethylene oxide
- Shelf Life** : 5 years
- Applications** : Sub cuticular and subcutaneous tissue closure, urology, paediatric surgery, general surgery including bowel anastomosis
- U. S. P. Range** : USP 6-0 to 1, supplied as needled sutures and ligatures

# PROCRYL MONO

MONOFILAMENT  
POLIGLECAPRONE 25 SUTURE



Atraumatic Needles and Sutures

NEEDLE			SUTURE				
Length	Profile	Description	Length	Size (USP)			
				6-0 (0.7)	5-0 (1)	4-0 (1.5)	3-0 (2)
12 mm	3/8 Circle	Cutting	45 cm	INW 833			
16 mm	3/8 Circle	Round Bodied	70 cm	INW 1648			
16 mm	3/8 Circle	Cutting Prime Needle	45 cm	INW 3204		INW 3205	
16 mm	3/8 Circle	Reverse Cutting Prime Needle	70 cm Undyed	INW 1205			
Length	Profile	Description	Length	Size (USP)			
				4-0 (1.5)	3-0 (2)	2-0 (3)	1-0(3.5)
25 mm	3/8 Circle	Cutting Prime Needle	45 cm Undyed	INW 1326S			
			70 cm Undyed	INW 1326			
26 mm	3/8 Circle	Reverse Cutting	45 cm Undyed	INW 3326S			
			70 cm Undyed	INW 3326			
26 mm	1/2 Circle	Round Bodied	70 cm Undyed	INW 1664		INW 1665	
30 mm	1/2 Circle	Round Bodied	70 cm	INW 1641		INW 1642	
36 mm	1/2 Circle	Round Bodied	70 cm	INW 1666			
60 mm	Straight	Cutting	70 cm	INW 1650		INW 1651	

# PROSYNTH

## MONOFILAMENT POLYDIOXANONE SUTURE



- Description** : PROSYNTH sutures are synthetic, absorbable, sterile surgical suture for long term wound support. Polydioxanone sutures are the strongest available synthetic absorbable sutures for extended wound support. Smooth, pliable and with least memory. Its dark blue color imparts enhanced visibility. Its monofilament structure provides good handling properties and excellent knot security.
- Special Features** : Long term wound support, smooth tissue passage, virtually no tissue reaction, dyed violet for easy visibility
- Material** : Monofilament Polydioxanone
- Structure** : Monofilament
- Colour** : Dark Violet
- Wound Support** : Long term, 50 Days
- Absorption Profile** : 180 to 210 days, absorbed by hydrolysis
- Sterilization** : Ethylene oxide
- Shelf Life** : 5 years
- Applications** : General orthopaedic surgery, gastro intestinal tract, sheath closure, pediatric cardiovascular surgery, sub cuticular and general surgery
- U. S. P. Range** : Gauge sizes 6-0 to 1, supplied as needled sutures and ligatures

# PROSYNTH MONOFILAMENT POLYDIOXANONE SUTURE



### Atraumatic Needles and Sutures

NEEDLE			SUTURE				
Length	Profile	Description	Length	Size (USP)			
			5-0 (1)	4-0 (1.5)	3-0 (2)	2-0 (3)	1-0(3.5)
17 mm	1/2 Circle	Round Bodied	90 cm	INW 9109		INW 9108	
19 mm	3/8 Circle	Reverse Cutting	70 cm	INW 9519			
20 mm	1/2 Circle	Round Bodied	70 cm	INW 9304		INW 9237	
30 mm	1/2 Circle	Round Bodied	45 cm			INW 9133S	
			70 cm	INW 9132		INW 9133 INW 9210	
30 mm HEAVY	1/2 Circle	Round Bodied	70 cm	INW 9254			
Length	Profile	Description	Length	Size (USP)			
				4-0 (1.5)	3-0 (2)	1-0(3.5)	1 (4)
40 mm	1/2 Circle	Round Bodied	90 cm	INW 9234			
40 mm HEAVY	1/2 Circle	Round Bodied	90 cm			INW 9371 INW 9352	
40 mm HEAVY	1/2 Circle	Round Bodied	150 cm (loop)			INW 9260 INW 9261	
40 mm	1/2 Circle	Reverse Cutting or needle	90 cm	INW 9221			
50 mm HEAVY	1/2 Circle	Reverse Cutting	90 cm	INW 9374			

# GUTPRO

## CATGUT SUTURE (CHROMIC & PLAIN)



<b>Description</b>	: GUTPRO Catgut sutures are natural, absorbable, sterile surgical sutures for short-medium term wound support with exceptional strength. Catgut sutures are most widely used in the surgery, obtained by longitudinally slitting the intestinal submucosa of sheep and goat, twisting the ribbons and joining them in wet condition giving monofilament finish. Catgut sutures tend to absorb faster in infected tissues. Catgut chromic sutures are treated with chromic salt to enhance absorption period and reduce any adverse tissue reaction. Catgut plain sutures are absorbed extremely fast and elicit very minimal tissue reaction.
<b>Special Features</b>	: Excellent tensile strength, uniform absorption and wound support, excellent knot security, smooth tissue passage, no entanglement during dispersion, packed in IPA to reduced memory and increase pliability
<b>Material</b>	: Highly purified submucosal layer of ovine intestine
<b>Colour</b>	: Dark brown (Chromic) and Ivory (Plain)
<b>Wound Support</b>	: Short - medium term 18-21 days (Chromic) and 12-15 days (Plain)
<b>Absorption Profile</b>	: Absorbed by enzymatic hydrolysis 90-120 days (Chromic) and 60-70 days (Plain)
<b>Packing</b>	: Wet (packed in Iso Propyl Alcohol - IPA)
<b>Sterilization</b>	: Ethylene oxide in an alcoholic base
<b>Shelf Life</b>	: 5 years
<b>Applications</b>	: General closure, ophthalmic, obstetrics, orthopaedics, obstetrics / gynecology, & gastro-intestinal tract surgery
<b>U.S.P. Range</b>	: Gauge sizes 5-0 to 2

# GUTPRO CATGUT CHROMIC SUTURE



Atraumatic Needles and Sutures

NEEDLE			SUTURE						
Length	Profile	Description	Length	Size (USP)					
				5-0(1.5)	4-0(2)	3-0(3)	2-0(3.5)	1-0 (4)	
12 mm	3/8 Circle	Reverse Cutting	38 cm 76 cm						INW 4266 INW 4268
12 mm	1/2 Circle	Reverse Cutting	76 cm						INW 4272
16 mm	3/8 Circle	Round Bodied	76 cm	INW 4281		INW 5048			
16 mm	3/8 Circle	Cutting	76 cm		INW 4280		INW 4274		
20 mm	1/2 Circle	Round Bodied	76 cm						INW 4237
22 mm	3/8 Circle	Cutting	76 cm						INW 4201
26 mm	1/2 Circle	Round Bodied	76 cm			INW 4125	INW 4123	INW 4124	
30 mm	3/8 Circle	Round Bodied	76 cm					INW 4216	INW 4217
30 mm	1/2 Circle	Round Bodied	76 cm 152 cm					INW 4241	INW 4242 INW 2214VS
30 mm HEAVY	1/2 Circle	Round Bodied	76 cm						INW 4254
36 mm	1/2 Circle	Round Bodied Reverse Cutting	152 cm						INW 4277
40 mm	3/8 Circle	Round Bodied	76 cm					INW 4220	INW 4221
40 mm	1/2 Circle	Round Bodied	76 cm			INW 4294	INW 4245	INW 4246	

Atraumatic Needles and Sutures

NEEDLE			SUTURE				
Length	Profile	Description	Length	Size (USP)			
			3-0(3)	2-0(3.5)	1-0(4)	1(5)	2(6)
40 mm HEAVY	1/2 Circle	Round Bodied	76 cm		INW 4258	INW 4259	
40 mm HEAVY	1/2 Circle	Taper Cutting	76 cm 100 cm		INW 4257 INW 4279	INW 4297S INW 4297	
45 mm	3/8 Circle	Round Bodied	76 cm	INW 4223	INW 4224	INW 4225	INW 4226
45 mm	1/2 Circle	Round Bodied	76 cm		INW 4249	INW 4250	
45 mm	1/2 Circle	Round Bodied Reverse Cutting	152 cm		INW 4276	INW 4275	
45 mm HEAVY	1/2 Circle	Round Bodied	76 cm 100 cm		INW 4229	INW 4227	INW 4228S INW 4228
45 mm	Straight	Round Bodied	76 cm		INW 4204	INW 4205	
50 mm HEAVY	1/2 Circle	Round Bodied	100 cm			INW 4248	
50 mm	Straight	Round Bodied	76 cm	INW 4207	INW 4208	INW 4209	INW 4210

Pre-Cut Sutures (Non-Needled)

Length	Size (USP)				
	3-0(3)	2-0(3.5)	1-0(4)	1(5)	2(6)
1X152cm	WN 2212	WN 2213	WN 2214	WN 2215	WN 2216
2X152cm	WN 2252	WN 2253	WN 2254	WN 2255	WN 2256

Atraumatic Needles and Sutures

NEEDLE			SUTURE			
Length	Profile	Description	Length	Size (USP)		
			5-0(1.5)	4-0(2)	3-0(3)	2-0(3.5)
12 mm	3/8 Circle	Reverse Cutting	76 cm	INW 4269		
16 mm	3/8 Circle	Cutting	76 cm		INW 4270	INW 4271
22 mm	3/8 Circle	Cutting	76 cm			INW 5010
25 mm	1/2 Circle	Round Bodied	76 cm			INW 4238
26 mm	3/8 Circle	Cutting	76 cm			INW 5020
30 mm	3/8 Circle	Round Bodied	76 cm			INW 5033
50 mm	Straight	Round Bodied	76 cm		INW 5007	INW 5008
60 mm	Straight	Cutting	76 cm			INW 4288

Pre-Cut Sutures (Non-Needled)

Length	Size (USP)				
	3-0(3)	2-0(3.5)	1-0(4)	1(5)	2(6)
1X152cm	WN 2002	WN 2003	WN 2004	WN 2005	WN 2006
2X76cm	WN 2242	WN 2243	WN 2244	WN 2245	WN 2246

# PROPENE

## MONOFILAMENT POLYPROPYLENE SUTURE



### Cardiovascular and Other Speciality Sutures

<b>Description</b>	: PROPENE sutures are non-absorbable, sterile, monofilament surgical sutures, ideal for cardiovascular surgery. PROPENE sutures are used for permanent fixtures and provide permanent wound support. It elicit minimal tissue reaction and do not cause tissue rupture or support infection. Polypropylene sutures are blue colored for easy identification during surgery and do not require any coating. High quality 300 series alloy needles are used for exceptional performance in terms of sharpness, strength and ductility. PROPENE sutures used in cardiovascular surgery are straight packed to minimize memory.
<b>Special Features</b>	: Biologically inert, no adhering to tissue and efficacious as pull out sutures, resist involvement in infection, minimum inflammatory reaction in tissue, ideal suture for cardiovascular surgery
<b>Material</b>	: Monofilament Polypropylene
<b>Structure</b>	: Monofilament
<b>Dye Used</b>	: CU-Phtalocyanine blue (US FDA approved dye)
<b>Colour</b>	: Blue
<b>Wound Support</b>	: Lifelong support
<b>Absorption Profile</b>	: Non absorbable
<b>Sterilization</b>	: Ethylene oxide
<b>Shelf Life</b>	: 5 years
<b>Applications</b>	: General soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic and neurological procedures
<b>U.S.P. Range</b>	: Gauge sizes 8-0 to 1, supplied as needled sutures and ligatures

# PROPENE MONOFILAMENT POLYPROPYLENE SUTURE



### Cardiovascular Sutures

### Atraumatic Needles and Sutures

NEEDLE			SUTURE					
Length	Profile	Description	Length	Size (USP)				
			8-0 (0.4)	7-0 (0.5)	6-0 (0.7)	5-0(1)	4-0(1.5)	
6 mm Double Armed	3/8 Circle	Taper Point	60 cm 75 cm	ICV 2086 ICV 2086L	ICV 2076			
8 mm Double Armed	3/8 Circle	Taper Point	45 cm 60 cm 75 cm	ICV 2088S ICV 2088 ICV 2088L	ICV 2078S ICV 2078 ICV 2078L			
9 mm Double Armed	3/8 Circle	Taper Point	60 cm 75 cm		ICV 2079 ICV 2079L			
9.3 mm Double Armed	3/8 Circle	Taper Point VB	75 cm	ICV 8303	ICV 8304	ICV 8305		
10 mm Double Armed	3/8 Circle	Taper Point	60 cm 75 cm	ICV 2080	ICV 2070	ICV 8804 ICV 8804L		
10 mm Double Armed	1/2 Circle	Taper Point	60 cm 75 cm			ICV 8207 ICV 8803 ICV 8803L		
10 mm Double Armed Pledget 3mmX3mmX1.5mm	1/2 Circle	Taper Point	60 cm			ICV 8207-P3 ICV 8803-P3		
11 mm Double Armed	3/8 Circle	Taper Point (220 micron) (282 micron)	75 cm 75 cm			ICV 8802 ICV 8597		
13 mm Double Armed	3/8 Circle	Taper Point	45 cm 60 cm 75 cm 90 cm			ICV 8726S ICV 8726 ICV 8707 ICV 8721		
13 mm Double Armed	1/2 Circle	Taper Point	45 cm 60 cm 75 cm			ICV 8710S ICV 8206 ICV 8205 ICV 8204 ICV 8710 ICV 8204L		
13 mm Double Armed Pledget 3mm X 3mm X1.5mm	1/2 Circle	Taper Point	60 cm 75 cm			ICV 8206-P3 ICV 8205-P3 ICV 8204-P3 ICV 8710-P3		
16 mm	1/2 Circle	Taper Cutting	70 cm					ICV 899

**Cardiovascular Sutures**

**Atraumatic Needles and Sutures**

NEEDLE			SUTURE					
Length	Profile	Description	Length	Size (USP)				
				6-0(0.7)	5-0(1)	4-0(1.5)	3-0(2)	2-0(3)
16 mm Double Armed	1/2 Circle	Taper Point	90 cm		ICV 8556	ICV 8557		
16 mm Double Armed Pledget 3mm X 3mm X1.5mm	1/2 Circle	Taper Point	90 cm		ICV 8556-P3			
17.5 mm Double Armed	1/2 Circle	Taper Cutting	90 cm 150 cm			ICV 8935	ICV 8936	ICV 8937 ICV 8937L
17.5 mm Double Armed Pledget 3mm X 3mm X1.5mm	1/2 Circle	Taper Cutting	90 cm		ICV 8935-P3			
20 mm Double Armed	1/2 Circle	Taper Point	90 cm		ICV 8761			
22 mm Double Armed	1/2 Circle	Taper Point	90 cm		ICV 8922			
25 mm Double Armed	1/2 Circle	Taper Cutting	90 cm		ICV 8976			
26 mm Double Armed	1/2 Circle	Taper Point	75 cm		ICV 8832			
26 mm Double Armed	1/2 Circle	Taper Point	90 cm		ICV 8521	ICV 8522		
26 mm Double Armed	1/2 Circle	Taper Cutting	90 cm 150 cm					ICV 8977 ICV 8977L

**Other Speciality Sutures**

**Atraumatic Needles and Sutures**

NEEDLE			SUTURE					
Length	Profile	Description	Length	Size (USP)				
				6-0(0.7)	5-0(1)	4-0(1.5)	3-0(2)	2-0(3)
12 mm Double Armed	3/8 Circle	Reverse Cutting	45 cm 70 cm 90 cm	INW 878		INW 879		
12 mm Double Armed	3/8 Circle	Round Bodied	70 cm		INW 827			
13 mm Double Armed	3/8 Circle	Round Bodied	70 cm	INW 829				
15 mm Double Armed	3/8 Circle	Slim Blade Cutting	70 cm	INW 823	INW 826			
16 mm Double Armed	3/8 Circle	Round Bodied	70 cm		INW 881			
16 mm Double Armed	3/8 Circle	Round Bodied	70 cm		INW 882			
16 mm Double Armed	3/8 Circle	Cutting	45 cm 60 cm 70 cm			INW 815	INW 816	INW 870
16 mm Double Armed	1/2 Circle	Round Bodied	70 cm 90 cm		INW 849			INW 848
17 mm Double Armed	1/2 Circle	Taper Cutting	70 cm 90 cm		INW 899			INW 857
17 mm Double Armed	1/2 Circle	Taper Cutting	70 cm 90 cm			INW 835	INW 897	INW 898
						INW 853	INW 836	INW 837
20 mm Double Armed	1/2 Circle	Round Bodied	70 cm					INW 887
22 mm Double Armed	3/8 Circle	Cutting	70 cm					INW 018 INW 017
25 mm Double Armed	1/2 Circle	Round Bodied	70 cm 90 cm					INW 838 INW 825

Other Speciality Sutures

Atraumatic Needles and Sutures

NEEDLE			SUTURE					
Length	Profile	Description	Length	Size (USP)				
				4-0(1.5)	3-0(2)	2-0(3)	1-0(3.5)	1(4)
25 mm	1/2 Circle	Taper Cutting	70 cm 90 cm			INW 807 INW 806	INW 805	
25 mm	1/2 Circle	Round Bodied	70 cm 90 cm		INW 822 INW 852			
25 mm	1/2 Circle	Taper Cutting	70 cm 90 cm	INW 867		INW 808 INW 877		
26 mm	1/2 Circle	Round Bodied	90 cm				INW 824	
30 mm	1/2 Circle	Round Bodied	70 cm 90 cm			INW 841 INW 844	INW 842 INW 846	
30 mm HEAVY	1/2 Circle	Round Bodied	70 cm				INW 830	INW 840
30 mm HEAVY	1/2 Circle	Taper Cutting	90 cm 100 cm				INW 894	INW 896
40 mm HEAVY	1/2 Circle	Round Bodied	70 cm 90 cm				INW 843 INW 843L	
45 mm HEAVY	1/2 Circle	Reverse Cutting	100 cm					INW 883
60 mm	Straight	Cutting	70 cm		INW 888			

**PROLON**

MONOFILAMENT POLYAMIDE (Nylon) SUTURE



<b>Description</b>	: PROLON sutures are non-absorbable, sterile, monofilament surgical sutures, remarkably smooth and is dyed to enhance visibility in tissues. PROLON suture is inert like stainless steel. They do not support infection, maintain tensile strength indefinitely in tissues and provides prolonged tensile strength retention in tissue. They do not require any coating. Nylon sutures are usually not recommended for attachment of artificial prostheses in cardiovascular surgery.
<b>Special Features</b>	: Elastic and very high tensile strength, good knot security and positioning, easy handling and flexible, exceptionally supple
<b>Material</b>	: Monofilament polyamide 6 and 6,6
<b>Structure</b>	: Monofilament
<b>Dye Used</b>	: Logwood black, Natural wood extract (US FDA approved dye)
<b>Colour</b>	: Black, Blue
<b>Wound Support</b>	: 2-3 years
<b>Absorption Profile</b>	: Non absorbable
<b>Sterilization</b>	: Ethylene oxide
<b>Shelf Life</b>	: 5 years
<b>Applications</b>	: General soft tissue approximation and or / ligation, including use in ophthalmic surgery, skin and plastic surgery
<b>U.S.P. Range</b>	: Gauge sizes 10-0 to 2, supplied as needled sutures and ligatures



Atraumatic Needles and Sutures

NEEDLE			SUTURE				
Length	Profile	Description	Length	Size (USP)			
				10-0(0.2)	9-0 (0.3)	8-0 (0.4)	7-0 (0.5)
6 mm	3/8 Circle	Micropoint Spatulated	38 cm	INW 3718			
6 mm	3/8 Circle	Micropoint Spatulated	38 cm	INW 3719	INW 3714	INW 3324	
Length	Profile	Description	Length	Size (USP)			
				6-0(0.7)	5-0(1)	4-0(1.5)	3-0(2)
10 mm	3/8 Circle	Reverse Cutting	38 cm			INW 3326	
			70 cm	INW 3320	INW 3322		
12 mm	3/8 Circle	Reverse Cutting	70 cm	INW 3317			
15 mm	3/8 Circle	Slim Blade Cutting	70 cm	INW 3726			
16 mm	3/8 Circle	Cutting	35 cm	INW 3315			
			70 cm			INW 3318	INW 3321
26 mm	3/8 Circle	Cutting	70 cm	INW 3331			
Length	Profile	Description	Length	Size (USP)			
				3-0 (2)	2-0(3)	1-0(3.5)	1(4)
26 mm	3/8 Circle	Reverse Cutting	35 cm	INW 3328S	INW 3329S		
			70 cm	INW 3328M	INW 3329M		
			100 cm	INW 3328	INW 3329		
38 mm	1/2 Circle	Reverse Cutting	75 cm	INW 3303	INW 3304	INW 3305	INW 3306
40 mm	1/2 Circle	Round Bodied	150 cm (loop)	INW 3340			

Atraumatic Needles and Sutures

NEEDLE			SUTURE				
Length	Profile	Description	Length	Size (USP)			
				3-0(2)	2-0(3)	1-0(3.5)	1(4)
40 mm HEAVY	1/2 Circle	Round Bodied	100 cm			INW 3346 INW 3347	
40 mm	1/2 Circle	Reverse Cutting	45 cm	INW 3335S		INW 3337S	
			100 cm	INW 3335		INW 3337	
45 mm	3/8 Circle	Reverse Cutting	45 cm	INW 3336A			
			70 cm	INW 3336M			
			100 cm	INW 3336		INW 3334	
45 mm HEAVY	1/2 Circle	Reverse Cutting	45 cm	INW 3338S			
			100 cm	INW 3338			
50 mm Double Armed	Straight	Round Bodied	35 mm	INW 3307			
50 mm HEAVY	1/2 Circle	Round Bodied	150 mm (loop)	INW 3348			
60 mm	Straight	Cutting	70 mm	INW 3388	INW 3390	INW 3389	

**Pre-Cut Sutures (Non-Needed)**

Length	Size (USP)				
	3-0(2)	2-0(3)	1-0(3.5)	1(4)	2(5)
2 X 76 cm		WN 903	WN 904	WN 905	WN 906
5 X 35 cm	WN 702	WN 703	WN 704	WN 705	WN 706

# PROBOND

## BRAIDED & COATED POLYESTER SUTURE



- Description** : PROBOND sutures are non-absorbable, braided and coated, sterile, surgical sutures is one of the ideal suture for cardiovascular and implant surgery for long term support. Polyester sutures are known for superior knot sliding performance and ease of manipulation. They are not subject to degradation and retain tensile strength indefinitely in vivo.
- Special Features** : Compactly braided for excellent strength & handling properties, silicone coated for smooth tissue passage and does not soak up in body fluids, flexible, elongates to support for optimum knotting, material yields to extended approximation and has negligible tissue reaction, colored bright green for improved visibility
- Material** : Pre- stabilized polyethylene terephthalate
- Structure** : Braided
- Dye Used** : D & C Green CI 61565 (US FDA approved)
- Coating** : Coated with polybutylate / wax / silicone
- Colour** : Green, White
- Wound Support** : Lifelong support
- Absorption Profile** : Non absorbable
- Sterilization** : Ethylene Oxide
- Shelf Life** : 5 years
- Applications** : General closure, cardiovascular, plastics, orthopaedics, ophthalmic and skin surgery
- U.S.P.Range** : Gauge Sizes 5-0 to 5, supplied as needed sutures and ligatures

# PROBOND

BRAIDED & COATED  
POLYESTER SUTURE



Atraumatic Needles and Sutures

NEEDLE			SUTURE				
Length	Profile	Description	Length	Size (USP)			
				5-0(1)	4-0(1.5)	3-0(2)	2-0(3)
12 mm Double Armed	3/8 Circle	Round Bodied	76 cm (Green) 90 cm (Green)	IS 690	IS 691		
13 mm Double Armed	3/8 Circle	Taper Point	75 cm (Green)	IS 6890	IS 6891		
13 mm Double Armed	1/2 Circle	Taper Point	75 cm (Green) 75 cm (White)		IS 6892 IS 6893		
13 mm Double Armed Pledget 3mm x 3mm x 1.5mm	1/2 Circle	Taper Point	75 cm (Green) 75 cm (White)		IS 6892-P3 IS 6893-P3		
16 mm	3/8 Circle	Round Bodied	76 cm (Green)		IS 672		
16 mm	3/8 Circle	Cutting	38 cm (Green)		IS 670	IS 671	
17.5 mm Double Armed	1/2 Circle	Taper Cutting	75 cm (5 Green & 5 White) 90 cm (Green) 90 cm (White)	IS 6935	IS 6936	IS 6937	IS 10B52 IS 6917
17.5 mm Double Armed Pledget 6mm x 3mm x 1.5mm	1/2 Circle	Taper Cutting	75 cm (5 Green & 5 White) 90 cm (Green) 90 cm (White) 90 cm (4 Green)				IS 10B55 IS 6937-P6 IS 6917-P6 IS 4B37
25 mm	1/2 Circle	Round Bodied	76 cm (Green) 90 cm (Green)		IS 632	IS 623	
25 mm Double Armed	1/2 Circle	Round Bodied	76 cm (Green) 100 cm (Green)		IS 652	IS 655	

NEEDLE			SUTURE				
Length	Profile	Description	Length	Size (USP)			
				3-0(2)	2-0(3)	2(5)	5(7)
26 mm 26 mm Double Armed	1/2 Circle	Taper Point	75 cm (Green) 100 cm (Green)	IS 6832 IS 6552			
26 mm 26 mm Double Armed	1/2 Circle	Taper Cutting	75 cm (5 Green & 5 White) 90 cm (Green) 90 cm (White)	IS 10B72 IS 6977 IS 6987			
26 mm 26 mm Double Armed Pledget 6mm x 3mm x 1.5mm	1/2 Circle	Taper Cutting	75 cm (5 Green & 5 White) 90 cm (Green) 90 cm (White) 90 cm (4 Green)	IS 10B77 IS 6977-P6 IS 6987-P6 IS 4B77			
30 mm 30 mm	1/2 Circle	Round Bodied	150 cm (Green)	IS 633			
45 mm HEAVY 45 mm HEAVY	1/2 Circle	Taper Cutting	75 cm (1 Green per foil) 75 cm (4 Green per foil)	IS 4842 IS 4843			
55 mm HEAVY 55 mm HEAVY	1/2 Circle	Taper Cutting	75 cm (1 Green per foil) 75 cm (4 Green per foil)	IS 4845 IS 4846			
Length	Profile	Description	Length	Size (USP)			
				4-0(1.5)	1-0(3.5)	1(4)	
50 mm 50 mm	1/2 Circle	Reverse Cutting	100 cm (Green)	IS 679	IS 680		
53 mm Double Armed 53 mm	Straight	Cutting	45 cm (Green)	IS 640			

# PROSILK

## BLACK BRAIDED SILK SUTURE



<b>Description</b>	: PROSILK sutures are non-absorbable, coated and braided, sterile surgical sutures, most widely used having smooth flow through tissue while maintaining knot security. Silk Sutures are composed of natural material silk which is obtained from silk worm. It does not swell in tissue fluids. Silk thread is serum proof and water repellent. Silk sutures not indicated for use in biliary and urinary tract surgery. They have moderate tissue reaction.
<b>Special Features</b>	: Silicon or wax coated for excellent strength and smooth tissue passage, smooth and secure knotting, easy handling and flexible, coloured black for improved visibility
<b>Material</b>	: Natural silk (100% protein fiber spun by silkworm bombyx mori L)
<b>Structure</b>	: Braided
<b>Dye Used</b>	: Logwood extract (US FDA approved dye)
<b>Coating</b>	: Bees wax - IP/ Silicone
<b>Colour</b>	: Black
<b>Wound Support</b>	: 6 months
<b>Absorption Profile</b>	: Non absorbable
<b>Sterilization</b>	: Ethylene oxide
<b>Shelf Life</b>	: 5 years
<b>Applications</b>	: General closure, G.I. tract, plastic, skin, ophthalmic, cardiovascular surgeries, widely used as ligature.
<b>U.S.P. Range</b>	: Gauge sizes 8-0 to 2, supplied as needled sutures and ligatures

Atraumatic Needles and Sutures

NEEDLE			SUTURE					
Length	Profile	Description	Length	Size (USP)				
			6-0(0.7)	5-0(1)	4-0(1.5)	3-0(2)	2-0(3)	
8 mm	3/8 Circle	Reverse Cutting (Micro Point)	38 cm	INW 5043				
10 mm	3/8 Circle	Round Bodied	76 cm	INW 5095				
10 mm	3/8 Circle	Reverse Cutting (Micro Point)	38 cm	INW 5012				
12 mm	3/8 Circle	Round Bodied	76 cm	INW 5027				
12 mm	3/8 Circle	Reverse Cutting	76 cm	INW 5080				
13 mm	3/8 Circle	Round Bodied	76 cm	INW 5029				
16 mm	3/8 Circle	Round Bodied	76 cm	INW 5081 INW 5082				
16 mm	3/8 Circle	Cutting	76 cm 90 cm	INW 5001 INW 5002 INW 5000 INW 5003				
16 mm	1/2 Circle	Round Bodied	76 cm	INW 5049				
17 mm	1/2 Circle	Taper Cutting	76 cm	INW 5098 INW 5099 INW 5610				
20 mm	1/2 Circle	Round Bodied	76 cm	INW 5086 INW 5087				
25 mm	1/2 Circle	Round Bodied	76 cm	INW 5070				
25 mm	1/2 Circle	Taper Cutting	76 cm	INW 5670				

Atraumatic Needles and Sutures

NEEDLE			SUTURE					
Length	Profile	Description	Length	Size (USP)				
			3-0(2)	2-0(3)	1-0(3.5)	1(4)	2(5)	
26 mm	3/8 Circle	Reverse Cutting	76 cm	INW 5028				
30 mm	3/8 Circle	Round Bodied	76 cm	INW 5017				
30 mm	1/2 Circle	Round Bodied	76 cm 90 cm	INW 5333 INW 5334 INW 5331				
40 mm	1/2 Circle	Round Bodied	76 cm	INW 5075 INW 5073				
45 mm	3/8 Circle	Reverse Cutting	35 cm 76 cm	INW 5036S INW 5037S INW 5036 INW 5037				
50 mm	Straight	Round Bodied	76 cm	INW 5208				
50 mm	1/2 Circle	Reverse Cutting	76 cm	INW 5052				
60 mm	Straight	Cutting	76 cm	INW 5290				
60 mm	3/8 Circle	Cutting	76 cm	INW 5062				

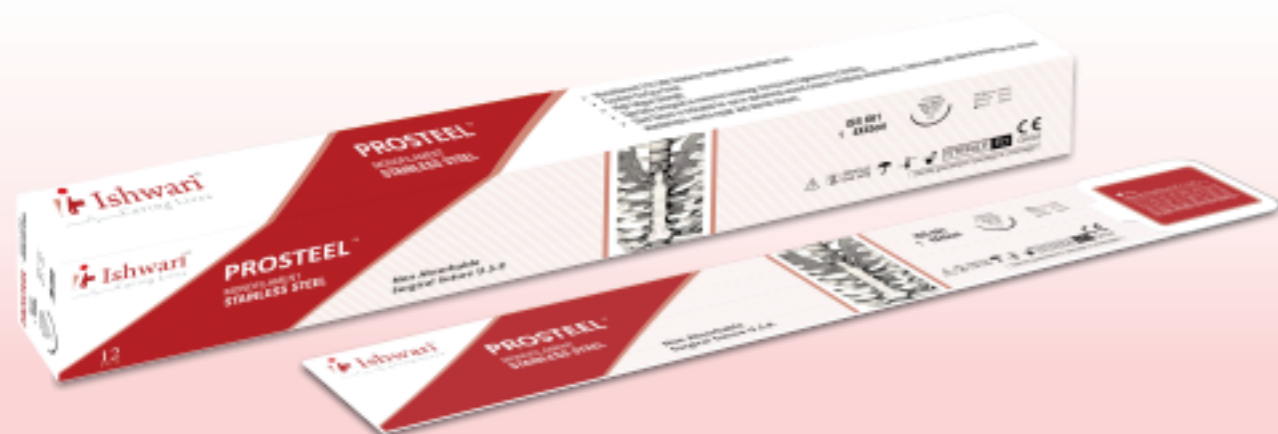
Pre-Cut Sutures (Non-Needled)							
Length	Packing	Size (USP)					
		4-0(1.5)	3-0(2)	2-0(3)	1-0(3.5)	1(4)	2(5)
2 X 35 cm	Sterile over wrap packs		WN 222	WN 223	WN 224	WN 225	
2 X 75 cm		WN 211	WN 212	WN 213	WN 214	WN 215	WN 216

Silk Reels (Non-Sterile)							
25 Meters Reels	Box of 6 Reels	IR 821	IR 822	IR 823	IR 824	IR 825	IR 826

# PROSTEEL

MONOFILAMENT STAINLESS STEEL SUTURE



- Description** : PROSTEEL sutures are non-absorbable, sterile, surgical steel sutures, most inert and provides maximum tensile strength. Steel sutures are made from premium quality surgical grade steel which ensures that suture is inert and there is no tissue reactivity. Steel sutures are soft and specially annealed ductile steel reduces chances of breakage. Further these sutures are bright, drawn and annealed and has a strength of 700 to 800 Mpa.
- Special Features** : Most inert among all suture material, maximum tensile strength, stable band tightening and twisting, needle to suture attachment is permanent with precision welding technology, attached to blunt, round body & conventional cutting needles
- Material** : Grade SS 316 LVM steel
- Structure** : Monofilament
- Colour** : Silver metallic
- Wound Support** : Life long
- Absorption Profile** : Non absorbable
- Sterilization** : Ethylene oxide
- Shelf Life** : 5 years
- Applications** : Sternal closure in open-heart surgery, dental surgery, hernia repair, orthopaedic procedures including cerclage and tendon repair
- U.S.P. Range** : Gauge sizes 1 to 7

# PROSTEEL

MONOFILAMENT  
STAINLESS STEEL SUTURE



Atraumatic Needles and Sutures

NEEDLE			SUTURE				
Length	Profile	Description	Length	Size (USP)			
				0	1	2	3
40 mm	1/2 Circle	Round Bodied Blunt Point	4 X 45 cm	ISS 661	ISS 662		
40 mm	1/2 Circle	Taper Cutting	4 x 45 cm	ISS 660	ISS 650		
Length	Profile	Description	Length	Size (USP)			
				4	5	6	7
45 mm	1/2 Circle	Round Bodied Blunt Point	4 x 45 cm 2 x 75 cm 6 x 75 cm	ISS 664	ISS 651 ISS 643	ISS 649 ISS 645	ISS 756VS
48 mm	1/2 Circle	Round Bodied Blunt Point	2 x 75 cm		ISS 643		
48 mm	1/2 Circle	Conventional Cutting	4 X 45 cm 6 X 45 cm 2 X 75 cm	ISS 652	ISS 653	ISS 654 ISS 654-6	ISS 654-T ISS 644

# PROPENE MESH

## MONOFILAMENT POLYPROPYLENE MESH



**Description** : PROPENE MESH is monofilament synthetic non-absorbable, sterile surgical mesh constructed of knitted filament of extruded polypropylene. PROPENE MESH is intended to assist in the repair and reinforcement of hernia and other fascial defects requiring the additional support of a non-absorbable mesh during and after wound healing. Bio-compatible in nature, surgical mesh are good in strength and offer burst resistance for permanent support. The mesh offers long stability and superior performance. It is knitted in such fashion as to interconnect each monofilament fiber and provide bi-directional elasticity, while allowing the mesh to be cut to any shape without unraveling.

- Special Features** :
- Flexible, strong, elastic & transparent mesh
  - Unique knitting mesh design
  - High strength & burst resistance for permanent support
  - Non-absorbable, inert and porous
  - Bio compatible, open knit construction allows in-growth of host tissues and encourages natural repair
  - Ideal porosity for high visibility, colonization and integration
  - Provides maximum support and elasticity permanently
  - Good shape memory
  - Excellent multi-directional mechanical properties and exceptional resistance to tearing
  - No shrinkage provides long term material stability important to counter muscular contraction
  - Laser cut providing precise shape and preventing edges from fraying
  - Also available thin mesh for easy manipulation and placement for laproscopic surgery and macropore mesh
  - Sterilized by Ethylene oxide

**Application** : Abdominal wall reinforcement, treatment of incisional, inguinal, femoral, umbilical and ventral hernias, use in both coelioscopy and laparotomy

**Sizes** :

Code	IH 306	IH 611	IH 715	IH 115	IH 151	IH 303
<b>Dimension</b>	3cm X 6cm	6cm X 11cm	7.6cm X 15cm	10cm X 15cm	15cm X 15cm	30cm X 30cm
<b>Packing</b>	10 sheets / Box	6 sheets / Box	6 sheets / Box	3 sheets / Box	3 sheets / Box	1 sheet / Box

\* Other sizes available on request

# PROPLEX MESH

## PARTIALLY ABSORBABLE COMPOSITE MESH

(POLYPROPYLENE & POLYGLYCOLIC ACID)



**Description** : PROPLEX MESH is flexible light weight and partially absorbable composite mesh composed of monofilament Polypropylene and Polyglycolic acid.

- Characteristics** :
- Composed of Polypropylene and Polyglycolic acid filaments knitted together
  - Macropore construction
  - Low density (85 GSM)
  - About 50% of the biomass is Polyglycolic acid that gets absorbed
  - Contains Polyglycolic acid which is much stronger than Polypropylene
  - Contains Polypropylene which is non-absorbable and has multidirectional elasticity

- Special Features** :
- Excellent handling characteristic
  - Flexible, strong, elastic & transparent mesh
  - High tensile strength and burst resistance
  - Flexible scar lets abdominal wall move naturally
  - Life time support for the patient
  - Less biomass and less permanent foreign body material
  - Lesser erosion risk, less inflammatory reaction, less abdominal adhesions
  - Sterilized by Ethylene oxide

**Application** : Use for Intra abdominal hernia repairs, ventral hernia, inguinal hernia

**Sizes** :

Code	PSM 611	PSM 715	PSM 115	PSM 151
<b>Dimension</b>	6cm x 11cm	7.6cm x 15cm	10cm x 15cm	15cm x 15cm
<b>Packing</b>	3 sheets / Box	3 sheets / Box	1 sheet / Box	1 sheet / Box

\* Other sizes available on request

# PROWAX

## STERILE BONE WAX



- Description** : PROWAX is a sterile mixture of beeswax, paraffin wax and iso propyl palmitate. Bone wax is used to help mechanically control bleeding from bone surfaces during surgical procedures by providing hemostasis in bleeding bone. It controls bleeding of bone by blocking the holes and causing immediate bone hemostasis. Bone wax is used in procedures that involve cutting through bones like sternotomy, thoracic, neurosurgery, orthopedic, oral and maxillofacial surgeries.
- Special Features** :
- Soft, easy to form and to apply
  - Bio-chemically inert and partially resorbable
  - Helps local haemostasis by functioning like a mechanical barrier
  - Compatible with body tissues, does not induce skin irritation or any allergic reactions
  - Provided sterile for single use only
- Composition** : Bees wax I.P., white hard paraffin wax I.P., ISO propyl palmitate U.S.P.
- Colour** : Opaque
- Odour** : Waxy Odour
- Sterilization** : Gamma Radiation
- Shelf Life** : 5 years
- Applications** : Used for open heart and thoracic surgery, neuro surgery, orthopaedic surgery
- Packing** : 2.5 gms per unit pack

# PROSTAP

## SKIN STAPLER



- Description** : PROSTAP Skin Stapler is intended for routine skin closure in a wide variety of surgical procedures ranging from orthopedic surgery to sternal closure. It is simple, very reliable, reasonably designed and easy to operate. It sews up rapidly and is very reliable and reduces operation cost. No operational training is required. Staples with different external diameters and width can apply to sewing different operation incision. High sewing up and stapling speed help to shorten the time of sewing, minimizes occurring of complications and avoid the cross infection of many contagious diseases.
- Special Features** :
- Superior design gives uniform tension & minimum tissue compression & trauma
  - Reliable stapling, good grip, better control, no jamming
  - Non corrosive, inert staple pins suitable for surgical implants
  - The diagonally shaped head allows for clear, easy and accurate placement
  - Superior cosmetic results as it promotes blood supply and faster scar-free healing
  - Painless and convenient when remove staples after the operation incision healed up
- Product Details** :
- Superior 316 LVM grade pins
  - 35 staples per stapler
  - Re loadable cartridge
  - Sterile product for single use
  - Sterilized by Ethylene oxide
  - Sizes available: 35W, 35R, 35H
- Applications** : General surgery, heart and bosom surgery, plastic surgery, burn surgery, neuron surgery, bone surgery, gynecology and obstetrics, oncology surgery, field rescue, emergency treatment

## PROSTAP R STAPLE REMOVER

- For painless and effortless extraction of staples after the skin was sutured



### Infusion Therapy:

- I.V. Cannula
- 3-way Stopcock
- Extension Line
- I.V. Infusion Set
- I.V. Flow Regulator
- Scalp Vein Set
- Blood Transfusion Set
- Insulin Syringe

### Critical Care / Dialysis:

- Central Venous Catheter Set
- Haemodialysis Catheter Kit
- Haemodialysis Blood Lines
- A.V. Fistula Needles

### Anaesthesia & Respiratory Care:

- Suction Catheter
- Nasal Oxygen Cannula
- Oxygen Mask
- Nebulizer Mask
- Respiratory Exercisers
- Guedel Airways
- Catheter Mount
- Spinal Needle
- Epidural Kit

### Urology:

- Urine Collection Bags
- Foleys Balloon Catheter
- All Silicon Foleys Catheter
- Male External Catheter
- Nelaton Catheter

### Gastroenterology:

- Infant Feeding Tube
- Ryle's Tube
- Infant Mucus Extractor
- Umbilical Catheter

### Surgery & Wound Care:

- Close Wound Suction Unit
- Thoracic Drainage Catheter
- Thoracic Trocar Catheter
- Abdominal Drainage Set
- Yankaur Suction Set
- Surgical Blades
- Disposable Scalpels

### Other Products:

- Umbilical Cord Clamp
- Latex Surgical Gloves

For more information, visit us at [www.ishwarihealthcare.com](http://www.ishwarihealthcare.com)  
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