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**Internacional Farmacéutica, S.A. de C.V.**

Carreteraco #44 Col. Parque  
San Andrés, Del. Coyoacán  
C.P. 04040 México DF  
Tel: (52) 55 54841700  
Fax: (52) 5555494234

**Corporate Offices:**

Av. Paseo de la Reforma 284  
piso 21, Col. Juárez  
Del. Cuauhtémoc  
CP 06600, México DF  
Tel: (52) 55 1105 0260

# Cardiovascular Line

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# Our Cardiovascular Speciality Line

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Our main objective is for our sutures to remain implanted through each heartbeat.

Atramat® has established itself as a leading company in sutures, working side by side with surgeons in close and permanent communication, and the result has been the development of new products and special presentations that fully meet both surgical needs and stringent international specifications.

With 45 years of experience and recognition in more than 70 countries in 4 continents, Atramat® is today an essential part in the development of medical devices, providing security and confidence to the surgeon.



# Atralloy: A new generation of needles

Atramat® has proudly developed a new generation of needles, which perfectly combine a special alloy of grade 300 stainless steel, an optimal geometric design and a technologically innovative coating, thus achieving a perfect harmonic needle:

Atralloy needles provide security and control through the tissues and facilitate the penetration of hard tissues (calcified and/or atheromatous plaques significantly reducing filtration).

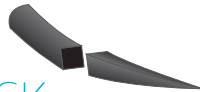
The 'Laser Drill' System ensures the safe assembly and uniform diameter between thread and needle. In our polypropylene, polyester and PVDF sutures, the diameters of the thread

and needle are practically the same, which is very convenient for vascular anastomosis since there is no filtration.

The Rockwell hardness of the needle assembled in polypropylene, polyester and PVDF is higher than that of the conventional needles, resulting in an excellent penetration by facilitating the passage through calcified tissues or atheromatous plaques.

- **Proven effectiveness**
- **Technological innovation**

## Atralloy ANTI REFLECTIVE, BLACK



In addition to the excellent alloy, coating and geometrical characteristics of the Atralloy needle, we have added a black finish for an optimum contrast in the surgical field, thereby eliminating reflections and optimizing visualization.

This is very convenient in micro-vascular surgery.

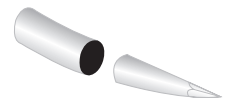
## Atralloy Taper Point



A taper point needle characterized by having a cylindrical body in the portion closest to the thread assembly and a flattened portion in the middle to provide greater control in the needle holder, as well as a superior physical strength. At the tip the shape is conical, getting gradually narrower and ending in a point.

It has a special coating that enhances tissue penetration.

## Atralloy Taper Cutting



A needle with a cylindrical body and a micro-tapered high precision cutting tip and a special flattening in the middle to provide greater control in the needle holder as well as a higher physical strength. The tip is micro-tapered and specially designed to easily break through calcified tissues and atheromatous plaques. The Atramat nomenclature is "YB".

It also has a special coating that enhances tissue penetration.

## POLYPROPYLENE

A synthetic, blue monofilament suture.

### CHARACTERISTICS + BENEFITS

- A synthetic inert material = perfect biocompatibility.
- Excellent plastic deformation = good knot coupling and excellent knot security.
- Monofilament (uniform caliber) = Soft passage through the tissues, minimizing tissue drag.
- Non-absorbable = Permanent tissue support.
- Withstands repeated bending = Ideal for cardiovascular procedures that require heart propulsion support in cardiac prosthesis or vascular anastomosis.

## POLYESTER

Braided, synthetic and non-absorbable multifilament, in green or white.  
Polyester made from Terephthalic acid with or without coating.

### CHARACTERISTICS + BENEFITS

- Synthetic and inert = Minimum tissue reaction.
- Withstands repeated bending = Ideal for cardiovascular surgery (heart prostheses).
- Braided multifilament = high tensile strength.
- Non-absorbable = long term tissue support.
- Green or white = Better visibility during surgery.
- Excellent plastic deformation = Provides excellent knot security.
- Hermetically sealed packaging = Guaranteed sterility of the product.

## PLEDGET

- Made of PTFE (polytetrafluoroethylene).
- Medical device designed to provide mechanical support between the cardiac prosthesis and the valve ring.
- White.
- Measures 3x3m m , 6x3x1.4m m .

## What we offer to the Surgeon:

- easy penetration atraumatic needles
- Polypropylene, Polyester and PVDF with high resistance to repeated bending, being this, the ability to bend the strand continuously, without reaching the flexural fatigue, thereby supporting the propulsion of the heart.



To learn more about this and all our range of products, please visit our website at:

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

## POLYPROPYLENE

Monofilament, Synthetic non-absorbable suture

Needle	Needle Name	Size	Curvature	Gauge	Thread Length
S	Cardiovascular Premium Taper Point	10 - 25 mm	1/2 circle	2-0 a 5-0	60 cm - 120 cm*
SE	Cardiovascular Premium Taper Point	8 - 13 mm	3/8 circle	5-0 a 8-0	60 cm - 120 cm
Y	Cutting Premium Taper Point	16 - 25 mm	1/2 circle	2-0 a 5-0	60 cm - 120 cm*
YE	Cutting Premium Taper Point	8 - 13 mm	3/8 circle	5-0 a 8-0	60 cm - 120 cm*
SBE	Atralloy Taper Point	10 - 13 mm	3/8 circle	5-0 a 7-0	60 cm - 120 cm
SVE	Atralloy Anti Reflective Black Taper Point	10 - 13 mm	3/8 circle	5-0 a 7-0	60 cm - 120 cm

\*Pledget of 6 x 3 x 1.4

## POLYESTER

Monofilament, Synthetic Non-Absorbable Suture.

Needle	Needle Name	Size	Curvature	Gauge	Thread Length
S	Cardiovascular Premium Taper Point	16 - 25 mm	1/2 circle	2-0 a 4-0	60 cm - 120 cm* ** **
Y	Cutting Premium Taper Point	16 - 25 mm	1/2 circle	2-0 a 4-0	60 cm - 120 cm* ** **

\*Pledget of 6 x 3 x 1.4

\*\*Kit of 5 white Threads and 5 green Threads

\*\*Kit with Pledgets of 5 white Threads and 5 green Threads

Needle	Needle Name	Size	Curvature	Gauge	Thread Length
P	Reverse Cutting Premium	40 - 48 mm	1/2 circle	2 a 5	45 cm - 75 cm
W	Taper Cutting	40 - 48 mm	1/2 circle	2 a 5	45 cm - 75 cm*

\*Four Points per envelope









3-0  
EP 1 75cm  
& Exp: 2018-11-07  
Mfg: 2013-11-07  
[LOT] 30133901  
Signature

STERILIZED ON REQUEST

## POLYDIOXANONE

Monofilament, Synthetic absorbable suture

Needle	Needle Name	Size	Curvature	Gauge	Thread Length
S	Cardiovascular Premium Taper Point	16 - 25 mm	1/2 circle	4-0 a 5-0	75 cm
SE	Cardiovascular Premium Taper Point	10 - 13 mm	3/8 circle	5-0 a 7-0	60 cm - 75 cm

## STEEL

Monofilament, Synthetic, non-absorbable suture

Needle	Needle Name	Size	Curvature	Gauge	Thread Length
C	Reverse Cutting	26 - 57 mm	1/2 circle	2-0 a 5	45 - 75 cm*
J	Rotating Reverse Cutting	48 - 57 mm	1/2 circle	2-0 a 5	45 cm - 75 cm
W	Taper Cutting	48 - 57 mm	1/2 circle	2-0 a 6	45 - 75 cm**

Multifilament, no absorbable, synthetic

UL60/ S16	Temporary pacemaker electrode	60 - 16 mm	Straight - 1/2 circle	2 a 0	60 cm
UL90/ S25	Temporary pacemaker electrode	90 - 25 mm	Straight - 1/2 circle	2 a 0	60 cm

\*Two Points per envelope

\*\*Four Points per envelope

## Atramat® PGA

Multifilament, Synthetic, absorbable suture

Needle	Needle Name	Size	Curvature	Gauge	Thread Length
G	Taper Point	36 - 48 mm	1/2 circle	2-0 a 1	70 cm - 90 cm
R	Taper Point	20 - 30 mm	1/2 circle	5-0 a 0	70 cm - 75 cm
SG	Thick Premium Taper Point	36 - 48 mm	1/2 circle	2-0 a 1	70 cm - 90 cm
SR	Premium Taper Point	20 - 30 mm	1/2 circle	5-0 a 0	70 cm - 75 cm
PE	Reverse Cutting Premium	16 - 24 mm	3/8 circle	2-0 a 5-0	45 cm - 75 cm

## PGLA90

Multifilament, Synthetic, absorbable suture

Needle	Needle Name	Size	Curvature	Gauge	Thread Length
G	Taper Point	36 - 48 mm	1/2 circle	2-0 a 1	70 cm - 90 cm
R	Taper Point	20 - 30 mm	1/2 circle	5-0 a 0	70 cm - 75 cm
SG	Thick Premium Taper Point	36 - 48 mm	1/2 circle	2-0 a 1	70 cm - 90 cm
SR	Premium Taper Point	20 - 30 mm	1/2 circle	5-0 a 0	70 cm - 75 cm
PE	Premium Reverse Cutting	16 - 24 mm	3/8 circle	2-0 a 5-0	45 cm - 75 cm

## PGC 25

Multifilament, Synthetic, absorbable suture

Needle	Needle Name	Size	Curvature	Gauge	Thread Length
PE	Premium Reverse Cutting	13 mm	3/8 circle	2-0 a 5-0	45 cm - 75 cm

## SEDA

Multifilament, Natural, non-absorbable suture

Needle	Needle Name	Size	Curvature	Gauge	Thread Length
G	Taper Point	22 - 40 mm	1/2 circle	2-0 a 2	70 cm - 75 cm
R	Taper Point	20 - 30 mm	1/2 circle	2-0 a 3-0	70 cm - 75 cm
SG	Thick Premium Taper Point	22 - 40 mm	1/2 circle	2-0 a 2	70 cm - 75 cm
SR	Premium Taper Point	20 - 30 mm	1/2 circle	2-0 a 3-0	70 cm - 75 cm
SS	Needle-less	7 -12 Threads	-	4-0 a 2	75 cm
CE	Reverse Cutting	19 - 26 mm	3/8 circle	2-0 a 1	45 cm - 75 cm

# BONEWAX

Code	Wax Amount
CH-2.5	2.5 g

# HEMOSTATIC CLIPS

Code	Size	Color
AI74CS6	Small	Yellow
AI74CM6	Medium	Blue
AI74CML6	Medium-Large	Green
AI74CL6	Large	Orange

