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# Ophthalmic Line

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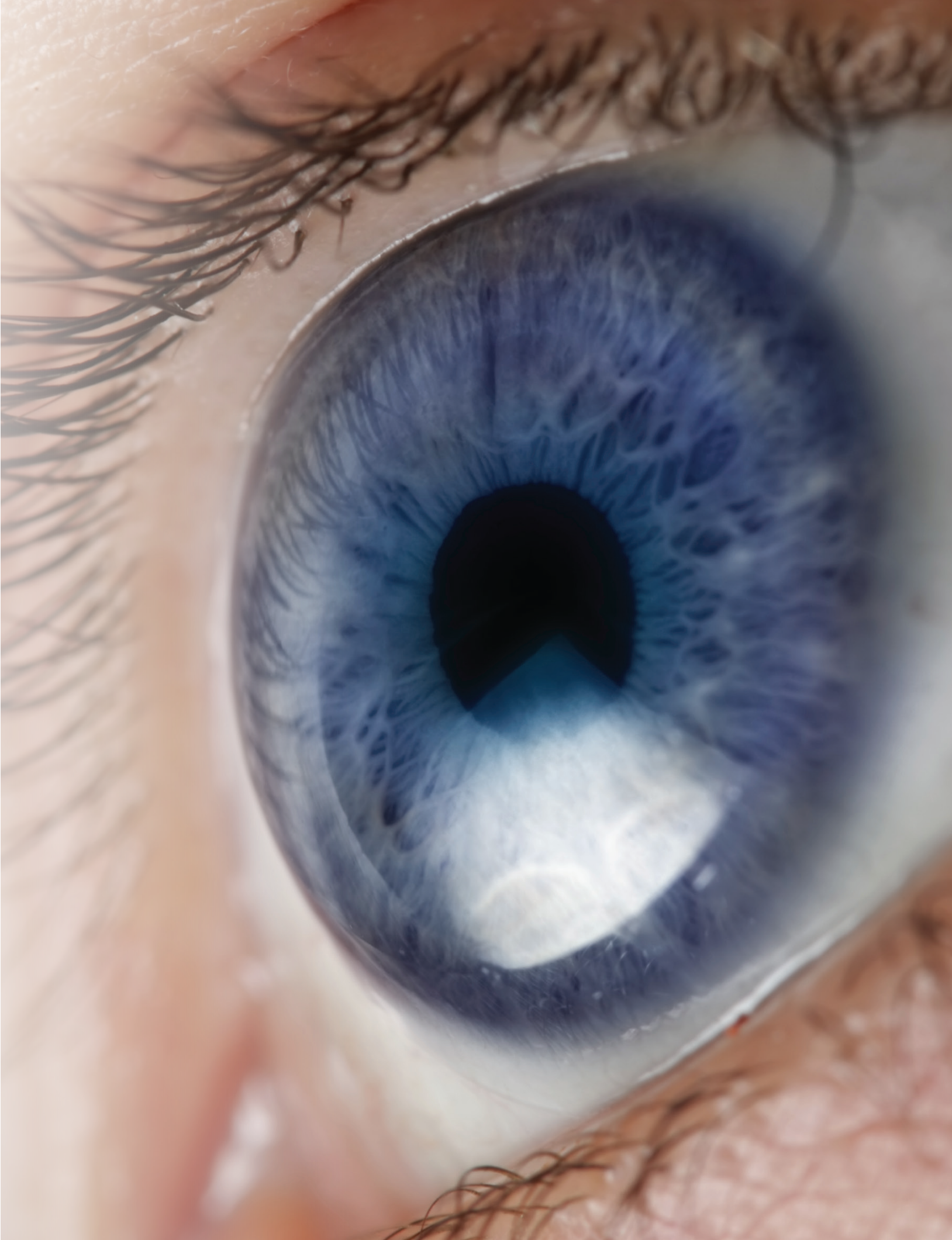
# Our speciality products for Ophthalmology

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In Atramat® we know that a grateful look is worth a thousand words, so we bring you a line of surgical sutures manufactured to the highest quality standards.

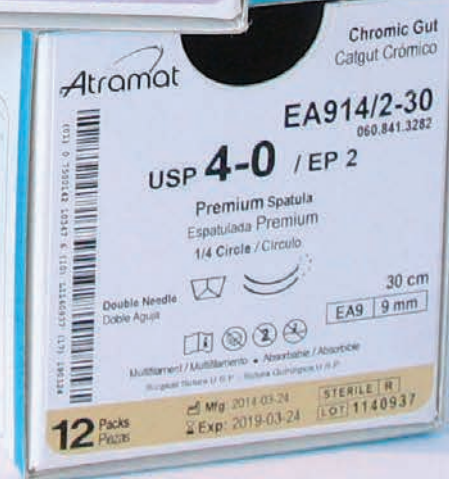
With 45 years of experience in the market and recognition in more than 70 countries across 4 continents, Atramat® is today an essential part of medical device development, providing security and confidence to surgeons worldwide

By working side by side and in close communication with surgeons, Atramat® has developed new products and special presentations that fully meet both surgical needs and stringent international specifications, thereby establishing itself as a leading suture manufacturer worldwide.





Atramat's  
ophthalmic line  
includes both  
absorbable and  
non-absorbable  
sutures



## Atramat® PGA

Synthetic, braided multifilament absorbable suture, violet and beige. Coated with polycaprolactone and calcium stearate.

Tissue reactivity under the microscope is minimal.

Absorption occurs through progressive hydrolysis and is completed within 60 to 90 days.

It maintains 70% of its tensile strength by the end of the second week and 50% by the third week.

Calibres are within USP parameters of the USP, so less foreign body material is implanted in the tissue.

Colour code: Violet and beige.

## Atramat® PGLA90

Poly (L-lactide-co-glycolide). (30/70) and calcium stearate.

Synthetic, braided multifilament absorbable suture, violet and colourless.

Tissue reactivity is minimal.

Absorption occurs through progressive hydrolysis and is completed within 56 and 70 days.

It maintains 75% of its tensile strength by the end of the second week, providing artificial support during the critical part of the healing process.

Colour code: Intense violet.

## Atramat® Nylon

Non-absorbable monofilament synthetic suture, black.

It is obtained by polyamide extrusion (6.0 and 6.6) with a uniform cylindrical shape.

Tissue reactivity is minimal.

The thread passes gently through tissue offering minimal tissue drag. Because it is monofilament it does not harbour micro-organisms and there is no capillary action.

Nylon is a non-absorbable material which becomes encapsulated by connective tissue over time.

Colour code: Green

## Atramat® Polyester

Synthetic, braided multifilament, non-absorbable suture, green or white.

Polyester made from terephthalic acid, with or without coating.

Tissue reactivity is minimal.

It is used for the coaptation of tissues due to its high tensile strength.

Colour code: intense orange.

## Atramat® Polypropylene

Synthetic, non-absorbable monofilament suture, blue.

Computer controlled extruded filament with uniform diameter

Tissue reactivity is minimal.

Polypropylene is extremely stable and is ideal for permanent tissue support without losing its tensile strength.

Its superior biocompatibility makes it ideal for the ophthalmologist; its softness and plastic deformation produce minimal tissue drag good knot coupling, providing excellent safety.

Colour code: blue

## Atramat® Silk

Non-absorbable, braided multifilament suture of natural origin, black, white, or blue.

It is obtained from the cocoon of the Bombyx Mori silkworm.

Tissue reactivity is moderate.

Tensile strength remains over time even though it becomes encapsulated by the tissue.

Colour code: light blue..

	Cornea	Muscle	Sclera	Retinal Surgery	Iris	Conjunctiva	Subcuticular	Eye Fixation	Skin
Polipropileno	Yes	No	Yes	No	Yes	No	No	Yes	No
Nylon	Yes	No	Yes	No	Yes	No	No	Yes	Yes
Poliéster	No	Yes	No	Yes	No	No	No	No	No
Seda	Yes	No	No	No	No	No	No	Yes	No
PGLA90	No	Yes	Yes	No	No	Yes	Yes	No	No
PGA	No	Yes	Yes	No	No	Yes	Yes	No	No



In ophthalmic surgery the choice of suture depends on the needle quality; high precision and minimal trauma are essential.

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## SURGICAL PROCEDURES

Cataract

Iris reconstruction

Retinal detachment

Eye fixation

Strabismus

Glaucoma

Corneal transplant

Oculoplastics





## PREMIUM SPATULA

Its flat, thin spatulate shape with two lateral cutting edges and one inferior cutting edge allows this needle to penetrate tissue with minimal trauma and without the accidental penetration of deeper tissues making it ideal in ophthalmic procedures.

This type of needle tip easily penetrates the hard tissues of the eye, and even after several passes the needle edge remains sharp.

It is sufficiently rigid not to bend but sufficiently flexible not to break during surgery, and thanks to its flat body the needle is easy to hold firmly in the needle holder, allowing for a precise grip and greater control whilst passing through eye tissue.



## REVERSE CUTTING

This needle is characterized by its triangular-shaped cutting pattern and the fact that the cutting edge is on the exterior curve of the needle body. It is used for skin closure.

It is ideal for suturing deeper tissues since it can be easily manoeuvred within a limited amount of space.



Learn more about our needles and our products on our website:

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

# OPHTHALMIC SURGERY

## Nylon

Non-absorbable monofilament synthetic suture

Needle	Needle Name	Size	Curvature	Caliber	Thread Length
E	Premium Spatula	6-7 mm	1/2 circle	10-0	30 cm
EE	Premium Spatula	6-7 mm	3/8 circle	9-0 a 10-0	30 cm
CE	Reverse Cutting	12-16 mm	3/8 circle	4-0 a 6-0	45 cm
PE	Premium Reverse Cutting	11-16 mm	3/8 circle	4-0 a 6-0	45 cm

## Polypropylene

Synthetic, non-absorbable monofilament suture

Needle	Needle Name	Size	Curvature	Caliber	Thread Length
EA	Premium Spatula	8-9 mm	1/4 circle	10-0	20 cm
EU	Premium Spatula/ Straight Spatula	6-16 mm	3/8-Recta	10-0	30 cm

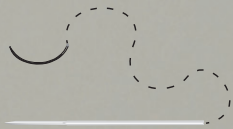
## Atramat® PGA

Synthetic, multifilament absorbable suture

Needle	Needle Name	Size	Curvature	Caliber	Thread Length
EA	Premium Spatula	6-8 mm	1/4 circle	5-0 a 6-0	45 cm
EE	Premium Spatula	6-8 mm	3/8 circle	7-0 a 8-0	20cm - 45cm



Always committed to innovation, Atramat® presents as part of its ophthalmic line its EU needle as a double-armed polypropylene suture, unique in the market.



This render of the EU needle is for demonstration only, doesn't represent the real size of the needles and sutures

## Atramat® PGLA90

Synthetic, multifilament absorbable suture

Needle	Needle Name	Size	Curvature	Caliber	Thread Lenght
EA	Premium Spatula	8 mm	1/4 circle	6-0	45cm
EE	Premium Spatula	6 mm	3/8 circle	8-0	30 cm

## Polyester

Synthetic, non-absorbable multifilament suture

Needle	Needle Name	Size	Curvature	Caliber	Thread Lenght
EA	Premium Spatula	8 mm	1/4 circle	5-0	45cm