ENOVÁ® PREMIUM TAPER POINT, MICRO-POINT, FLAT & SQUARE BODY - ENOVÁ® PREMIUM CUTTING & XTRASHARP
Surgical NEEDLES

CHEMICAL COMPOSITION
All ENOVÁ® needles are made in 300 steel series, according to the standard ASTM F899.

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<td>0.15</td>
<td>2.00</td>
<td>0.045</td>
<td>0.030</td>
<td>1.00</td>
<td>17.00–19.00</td>
<td>8.00–10.00</td>
<td>N 0.10 max</td>
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<tr>
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<td>0.15</td>
<td>2.00</td>
<td>0.045</td>
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<td>1.00</td>
<td>16.00–18.00</td>
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<td>17.00–19.00</td>
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STANDARD*
NF EN ISO 10993 Biocompatibility tests (Cytotoxicity, Intracutaneous irritation, Sensitization)
European Pharmacopoeia (Bacterial contamination)
ASTM F899 (Standard Specification for Wrought Stainless Steels for Surgical Instruments)
ASTM F1089 (Standard Test Method for Corrosion of Surgical Instruments)

INTERNAL PROTOCOLS*
I739 – Dimensional Measurement Protocol
I740 – CuSO4 Test Protocol (corrosion resistance)
I741 – Basic NaCl Test Protocol (corrosion resistance)
I742 – Bending Strength and Ductility Measurement Protocol
I743 – Penetration Strength Measurement Protocol
I744 – Hardness Measurement Protocol

INTERNAL SPECIFICATIONS*
D013 – SPECIFICATIONS PENETRATION AIGUILLES PCC XTRASHARP
D147 – SPECIFICATIONS PENETRATION AIGUILLES TAPER POINT (ET & ETS)
D148 – SPECIFICATIONS PENETRATION AIGUILLES PREMIUM CUTTING (RCP, ICP & SCP)
D154 – SPECIFICATIONS PENETRATION AIGUILLES MICRO POINT (EY & EYS)
D339 – SPECIFICATION FLEXION & DUCTILITE AIGUILLES

AVAILABILITY RANGES*
Wire sizes 0.28 to 1.58 mm
Length 10 to 90 mm
Hole sizes 0.15 to 1.30 mm
For USP 6/0 to 7

The SUTUREX & RENODEX Company certifies that all needles are coated with medical grade silicon.

MECHANICAL PROPERTIES
Bending: • • • • •
Ductility: • • • • •
Penetration force: • • • • •
Corrosion resistance: • • • • •

PRODUCT SPECIFICATIONS
Wire size: -0.01/+0.01 mm (.28 < ws. < .98 mm) -0.02/+0.025 mm (≥ .98 mm)
Length: -1/+1.2 mm
Hole size / Hole depth: D127 – DIAMETRE ET PROFONDEUR DE FORAGE ACIER 300 ET 420+
Hardness: 550Hv0.5 to 770Hv0.5
Curvature:

Round needles
130° < 135° < 140°
155° < 160° < 168°
175° < 180° < 190°
220° < 225° < 230°

Cutting needles
125° < 135° < 145°
150° < 160° < 170°
170° < 180° < 190°

(*) Documents available upon request
SILICON COATING
Most of Suturex & Renodex’s surgical needles are coated with our advanced needle coating technology, by using silicone medical grade coating*. Our Silicon coating maintains needle sharpness from start to finish over multiple passes. Silicon covers entire surgical needle offering consistent needle penetration pass after pass and needle to needle.

IMPORTANCE NOTICE
Suturex & Renodex neither represents nor test this material for specific medical application since we do not supply a medical device. Our products are non-sterile and for further processing only. Purchaser is fully responsible to determine end-use suitability.

MANUFACTURING ENVIRONMENT
ENOVA® needles are manufactured, tested and packaged under strict quality control. The quality system is in compliance with ISO 13485 registered.

ATTACHING PRECAUTIONS
The attaching machines must have an appropriate size of dies to attach needles on thread. Suturex & Renodex takes no responsibility for such needle hole selection.

DESCRIPTION AND USE
Traditional suture needles are sharp, usually curved, and used to thread sutures through the patient’s skin or other tissues to close wounds. They come in a variety of designs, including those with cutting tips, or those with tapered non-cutting tips.

INJURY RISK
Injuries can occur before use (when preparing the needle in the needle holder, passing between staff), during use (it is quite common for surgeons to pierce their own fingers whilst suturing), and after use/during disposal

Suturex & Renodex provide only disposable, single-use needles for sutures to avoid any cross-contamination.

HANDLING PRECAUTIONS
During transport and in factory:
Needle tips are fragile. Handle the product with care. The needle is held securely in a needle holder

In surgical application:
- The needle holder must be an appropriate size instrument for the size needle selected.
- Needles should be grasped in an area about 1/3 to 1/2 of the distance from the swaged area to the point. Avoid placement on or near the swaged area.

- The needle should be placed securely in the tip of the needle holder jaws.
- Do not damage taper points or cutting edges when using the needle holder to pull the needle out through the tissue. Grasp as far as possible.
- If the needle is held too tightly in a sharp or hard jawed or defective needleholder, the needle may be damaged or notched in such a manner that it will have more of a tendency to bend or break on successive passes through tissue.

STORAGE
The products should be stored, if possible, in original and closed package, in dry condition.

SHELF LIFE
Suturex & Renodex guarantees that the supplied products meet our internal specifications and the sales specifications in effect at the time of shipment. A wrong storage could affect performances of the products. The traceability records of each of the production batches are kept after 10 years from the manufacturing date.

DELIVERY FORMS
The needles are delivered in lots in plastic boxes of 250, 500, and 1000 needles (depend of the needle size).
Small quantities of samples are available upon request.
The customer shall inspect the packaging immediately upon delivery for completeness and absence of defects.

LIMITED WARRANTY INFORMATION
Suturex & Renodex’s sole warranty is that our products will meet our internal specifications and the sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other as warranted.

All documents are available upon request. For further information, please see our website, www.suturex-renodex.com or contact us.

(*) Documents available upon request