Aeos™ ePTFE Sutures and Monofilament

Overview-

Aeos™ ePTFE suture and monofilament products are engineered using advanced extrusion techniques to expand PTFE under controlled conditions to produce both standard strength and high-strength sutures or monofilaments, tailored to your exact needs. Biocompatible Aeos™ ePTFE suture and monofilament products are non-absorbable and can be permanently implanted in the human body with minimal immune response.

Designed to exhibit low surface friction with excellent drape, these products facilitate precision knot placement in delicate surgeries such as valve repair. In situ, sutures maintain the high tensile strength and flexibility required for stressful anatomical environments.

For enhanced straight-pull and knot-pull strength, Zeus offers a high strength suture monofilament which is up to two times stronger than standard ePTFE USP monofilaments (ASM) in some sizes, enabling better closure and optimized patient healing.

Zeus Aeos™ ePTFE suture monofilament has superior knot strength and can be swaged up to a 1:1 ratio via suppliers such as RK Manufacturing Corporation.

APPLICATIONS
- Suturing
- Tethering
- Vascular anastomosis
- Femoral vascular closure devices

AVAILABLE PRODUCTS
- Aeos™ ePTFE customized monofilament
- Aeos™ ePTFE suture monofilament
- Aeos™ ePTFE high strength suture monofilament

CAPABILITIES AND SIZING
- Can be swaged with a 1:1 needle-to-suture ratio
- Bulk supply available

KEY PROPERTIES
- Microporous
- Highly customizable
- Biocompatible
- Chemically inert
- Lubricious
- Soft and flexible
**Aeos™ ePTFE Sutures and Monofilament**

All Aeos™ ePTFE suture and monofilament products are produced based on customer specifications and the charts below are a general capability guide.

<table>
<thead>
<tr>
<th><strong>USP Size‡</strong></th>
<th><strong>Zeus Aeos™ Suture Monofilament (ASM) Size</strong></th>
<th><strong>Mean Diameter†</strong></th>
<th><strong>Knot-Pull Tensile Strength</strong>*</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-0</td>
<td>ASM 5</td>
<td>0.008” (0.2032 mm)</td>
<td>≥ 1.10 lbf (0.50 kgf)</td>
</tr>
<tr>
<td>4-0</td>
<td>ASM 4</td>
<td>0.0125” (0.3175 mm)</td>
<td>≥ 1.65 lbf (0.75 kgf)</td>
</tr>
<tr>
<td>3-0</td>
<td>ASM 3</td>
<td>0.0155” (0.3937 mm)</td>
<td>≥ 2.65 lbf (1.20 kgf)</td>
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<tr>
<td>2-0</td>
<td>ASM 2</td>
<td>0.0200” (0.508 mm)</td>
<td>≥ 3.97 lbf (1.80 kgf)</td>
</tr>
<tr>
<td>0</td>
<td>ASM 0</td>
<td>0.0240” (0.6096 mm)</td>
<td>≥ 5.95 lbf (2.70 kgf)</td>
</tr>
<tr>
<td>1</td>
<td>ASM 1</td>
<td>0.0300” (0.762 mm)</td>
<td>≥ 7.50 lbf (3.40 kgf)</td>
</tr>
</tbody>
</table>

*For non-sterile sutures of Class 1, the limits for knot pull tensile strength are 25% higher than listed on USP chart.

† Zeus ASM diameter is measured using a laser micrometer on an uncompressed ePTFE suture fiber.

‡ USP 861 non-absorbable suture diameter measurement is of the dead-weight type measurement on a compressed suture fiber.