The Ideal Companion

Suture choice plays an important part in achieving an optimal implantation of synthetic devices, particularly where ease of use and reduced suture hole leakage are key considerations. The unique properties of GORE-TEX® Suture make it an ideal companion for surgical procedures utilizing ePTFE grafts and patches.

Common Applications

Common applications include but are not limited to:
• Anastomosis of vascular grafts for vascular access
• Anastomosis of vascular grafts for peripheral vascular disease
• Anastomosis of aorto-bifemoral vascular grafts
• Chordae tendineae repair and replacement in mitral valve repair
• Carotid endarterectomy
• Ventral hernia repair
• Open inguinal hernia repair
• Pelvic floor repair
• Robotic surgery

Package Design

The unique delivery system for GORE-TEX® Suture is designed with ease of use in mind. For the majority of the part numbers, needle visibility through the package allows product confirmation before opening the pouch. Slotted needle grips allow for rapid arming of the needle without snagging or knotting of the thread.

• See order information for suture items available with a 1:1 needle to thread ratio.
References


For further ordering information, refer to the GORE-TEX® Suture Ordering Information brochure.

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Instron is a registered trademark of Instron Corporation.
The Perfect Close to Your Surgical Procedure
GORE-TEX® Suture is a unique, microporous, nonabsorbable monofilament made of expanded polytetrafluoroethylene (ePTFE), the same proven material used in other GORE Medical Products.

**Excellent Handling**

GORE-TEX® Suture is soft, flexible, and compressible for ease in suturing. There is no retained kinking, coiling, or package memory.

**Reduced Needle Hole Leakage**

GORE-TEX® Suture was originally developed to help minimize suture line bleeding. The unique structure allows the attachment of needles that approximate the diameter of the thread. The GORE-TEX® Suture fills the needle hole and can reduce blood loss and shorten time to hemostasis. This attribute is useful where minimizing needle hole leakage is desired.
Sizing designations for GORE-TEX® Suture do not follow the standard United States Pharmacopeia (USP) nomenclature used for many commercially available sutures. Instead, sizing is designated by a “CV” prefix followed by a number, with CV-8 the smallest and CV-0 the largest. To aid in appropriate size selection, Tables I and II show the tensile strength of GORE-TEX® Suture and other nonabsorbable sutures. For example, if knot-pull tensile strength is used as the suture selection criterion, a CV-6 GORE-TEX® Suture would be used in place of a 5-0 monofilament polypropylene suture.

### Suture Nomenclature

<table>
<thead>
<tr>
<th>TABLE I: GORE-TEX® SUTURE DATA</th>
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<tbody>
<tr>
<td>GORE-TEX® SUTURE SIZE</td>
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<td>------------------------</td>
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<tr>
<td>CV-8</td>
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<td>CV-7</td>
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<td>CV-6</td>
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<td>CV-2</td>
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<td>CV-0</td>
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All GORE-TEX® Suture materials were tested on a 1122 model Instron® device. Straight and knotted tensile tests were conducted at a temperature of 23°C and a crosshead speed of 200 mm/minute.

### Knotting

The properties of GORE-TEX® Suture facilitate knot tying. The smooth surface of the suture minimizes friction, allowing individual throws to slide easily and providing for precise positioning of a knot. Properly tensioned square knots are required for optimal knot security. This is achieved when each strand is pulled with equal force in opposite directions. Uneven tensioning can result in insecure knots and should be avoided.
**Inert and Biocompatible**

The porous microstructure of GORE-TEX® Suture allows tissue attachment and, in combination with the inertness and biocompatibility of ePTFE, fosters a benign tissue response. The benign tissue response to the supple GORE-TEX® Suture makes it particularly well-suited for procedures in which less capsule formation and less inflammation are important.

**Strong and Ductile Needles**

Gore needles are constructed of a 300 series, stainless steel alloy that provides high ductility and excellent strength. Three point types are available: taper, piercing, and cutting.

Premium 'c' series needles are offered for demanding vascular applications. A modified needle surface reduces force required to penetrate tissue while an engineered cross section and superior metallurgy produces a stiffer needle that is more resistant to bending.