

## GORE® SEAMGUARD®

Bioabsorbable Staple  
Line Reinforcement

# SEE THE DIFFERENCE IN STAPLE LINE REINFORCEMENT PRODUCTS

There are many properties of staple line reinforcement products to understand and evaluate when making a product choice. See the comparison below.

### Staple line reinforcement product comparison

	<b>GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement</b>	<b>ETHICON ECHELON ENDOPATH® Staple Line Reinforcement</b>	<b>MEDTRONIC ENDO GIA® Reinforced Reload with TRI-STAPLE Technology</b>	<b>BAXTER PERI-STRIPS DRY® with VERITAS® Collagen Matrix Staple Line Reinforcement</b>
<b>Manufacturer</b>	W. L. Gore & Associates	Ethicon, Inc.	Medtronic, Inc.	Baxter Healthcare Corporation
<b>Material</b>	Poly(glycolide:trimethylene carbonate) copolymer: <ul style="list-style-type: none"><li>■ 67% polyglycolic acid (PGA)</li><li>■ 33% trimethylene carbonate (TMC)</li></ul>	Two layers of polydiozanone film surround a layer of VICRYL® Material (copolymer of 90% glycolide and 10% L-lactide). The adhesive is composed of a mixture of water soluble alkylene oxide copolymers. <sup>1</sup>	100% PGA	Non-crosslinked bovine pericardium
<b>Thickness</b>	0.4 mm average	0.4 mm <sup>1</sup>	0.44 <sup>2</sup>	0.45–1.26 mm <sup>3</sup>
<b>Complete absorption</b>	6–7 months <sup>4</sup>	4 months <sup>1</sup>	3.5 months <sup>5</sup>	Degrades via inflammatory response followed by host collagen deposition, patient dependent <sup>6–8</sup>
<b>Stapler attachment</b>	Sleeve design held on by sutures	Adhesive composed of a mixture of water soluble alkylene oxide copolymers <sup>1</sup>	Preloaded on stapler, held by suture <sup>2</sup>	Hydrogel attachment material <sup>9</sup>
<b>Tissue response</b>	Slower degradation creates minimal inflammatory response, especially during early post-op time points which is the critical healing period: mild to moderate <sup>2,9</sup>	Material is visibly dispersed 14- and 21-days post-implantation in a porcine model. <sup>10</sup>	Creates significantly higher inflammatory response at early post-op time points <sup>2</sup>	Extensive inflammation at early post-op time point <sup>9</sup>
<b>Bariatric staple line reinforcement studies</b>	> 35 <sup>11</sup>	None*	4*	10*
<b>Leak rate per systematic review completed of 148 articles with 40,653 patients<sup>12</sup></b>	0.70% <sup>12</sup> worldwide 0.39% <sup>12</sup> in the U.S.	No data available	Product not included due to insufficient data <sup>12</sup>	2.7% <sup>12</sup> worldwide

\* A literature search was performed by an Information Specialist in June, 2023 using the BIOSIS PREVIEWS® Database, EMBASE® Database and MEDLINE MEDLARS® Database. Limiters were: 10 years, English language, humans. Key words/phrases are on file.

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**W. L. Gore & Associates, Inc.**  
Flagstaff, AZ 86004

**Asia Pacific** +65 67332882 **Australia/New Zealand** 1 800 680 424  
**Europe** 00800 6334 4673 **United States** 800 437 8181 928 779 2771 [goremedical.com](http://goremedical.com)

