

A leader in wound closure innovation since 1909

# Vascufil<sup>™</sup> Suture Coated Monofilament Polybutester



#### **UNDERSTANDING YOUR NEEDS**

# AT COVIDIEN, WE TRY TO PROVIDE SOLUTIONS TO THE CHALLENGES YOU FACE AS A CARDIAC SURGEON.

During CABG anastomoses and valve repair - the stakes are high. Your first priority is your patient. Suture selection can be critical.

#### POLYPROPYLENE SUTURE CAN FRACTURE AND FRAY<sup>1,2</sup>

Fraying can result in suture breakage when pulled through calcified tissues or while tying knots.

If fraying or breaking of the polypropylene suture occurs, it may not provide the adequate support required to hold the anastomosis. Having to redo the anastomosis is a time consuming and frustrating process during these critical procedures. **That's why you need a suture you can count on.** 



#### POLYBUTESTER IS A FRAY RESISTANT MATERIAL WITH A UNIQUE FEEL AND PERFORMANCE THAT MEETS THE DEMANDS OF CV AND PV SURGERY<sup>3</sup>

Vascufil<sup>™</sup> suture is made of polybutester designed to minimize premature suture breakage.

The cross-linking molecular structure of polybutester helps maintain the structural integrity of the suture – **designed for less fraying and breaking of the strand.** 



#### POLYBUTESTER PROVIDES 20% LARGER LUMINAL OPENING<sup>4</sup>

An in-vivo canine study when comparing polybutester with polypropylene notifies:

- A continuous anastomosis may behave as a region of focal constriction that can cause a decrease in blood flow
- Flow disturbances may cause intimal hyperplasia or thrombosis
- At 100 mm HG pressure, the anastomotic cross section area is 20% larger with polybutester





#### VASCUFIL<sup>™</sup> SUTURE IS ELASTIC, SOFT AND SUPPLE AND HAS A DIFFERENT "FEEL" TO IT.

Adapting to the feel of the suture can accommodate for the unique handling characteristics.

## THE UNIQUE HANDLING CHARACTERISTICS OF POLYBUTESTER INCLUDE:

- Less memory
- Soft and supple
- Elasticity





#### THE ELASTIC PROPERTIES OF POLYBUTESTER ARE DESIGNED TO PROVIDE:

- Great knot security
- Tighter and smaller knots



#### THE UNIQUE HANDLING CHARACTERISTICS OF THE POLYTRIBOLATE COATING IS DESIGNED TO<sup>5</sup>:

- Provide smooth knot run down
- Facilitate parachute technique (CABG procedure)
- Reduce tissue drag



#### NEEDLE PERFORMANCE

- Surgalloy<sup>™</sup>: premium needle alloy designed to enhance needle strength
- NuCoat<sup>™</sup> coating maintains needle sharpness over the duration of the procedure, resulting in consistent penetration, pass after pass
- Taper-cutting needles (KV) have a tapered body with a cutting tip

	CABG			Α		
		8 mm	9 mm	13 mm	17 mm	
	size 5-0			CV-11 3/8 KV-11 3/8	CV-23 1/2 CV-15 3/8	SIZE 2-0
			CV-1 3/8 KV-1	CV-11 3/8 CV-22		SIZE 3-0
-	SIZE 6-0	MV-175-8	CV-1 3/8	KV-11 3/8		SIZE 4-0
	SIZE <b>7-0</b>		KV-1 3/8			



Carotid Endarterectomy				
	9 mm	13 mm	17 mm	
		CV-22	CV-23	
		1/2	1/2	
		CV-11	CV-15	
SIZE		3/8	3/8	
5-0		KV-11		
		3/8		
	CV-1	CV-22		
	3/8	1/2		
	KV-1	CV-11		
SIZE	3/8	3/8		
6-0		KV-11		
		3/8		

Femoropopliteal bypass (Fem-Pop)				
	9 mm	13 mm	17 mm	26 mm
size 4-0			CV-23 1/2 CV-15 3/8	KV-7 1/2 V-20 1/2
size 5-0		CV-11 3/8 KV-11 3/8 CV-22 1/2	CV-23 1/2 CV-15 3/8	
SIZE <b>6-0</b>	CV-1 3/8 KV-1 3/8	CV-11 3/8 KV-11 3/8 CV-22 1/2		

A/V Fistula				
	8 mm	9 mm	13 mm	17 mm
			CV-11	CV-23
			3/8	1/2
			KV-11	CV-15
SIZE <b>5-0</b>			3/8	3/8
			CV-22	
			1/2	
		CV-1	CV-11	
		3/8	3/8	
		KV-1	KV-11	
SIZE 6-0		3/8	3/8	
			CV-22	
			1/2	
	MV-175-8	CV-1		
	3/8	3/8		
SIZE		KV-1		
7-0		3/8		
		$\smile$		

## **FREQUENT USES**

#### Soft Tissue Approximation:

- Coronary anastomosis (CABG)
- Vascular anastomosis (carotid endarterectomy, femoral popliteal bypass), A/V Fistula and AAA (Abdominal Aortic Aneurysm).

### INDICATIONS

Vascufil<sup>™</sup> polybutester sutures are indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular and ophthalmic surgery, but not in microsurgery and neural tissue.

## CONTRAINDICATIONS

The use of this suture is contraindicated in patients with known sensitivities or allergies to its components.

## SPECIFICATIONS

Composition	Polybutester, a copolymer of butylene terephthalate and polytetramethylene ether glycol. Coated with Polytribolate, an absorbable polymer of e-caprolactone/glycolide/poloxamer 188.		
Sizes	Available in USP sizes 2–0 (3 metric) through 7–0 (0.5 metric)		
Colors	Blue (Copper Phthalocyanine Blue)		
Units per box	One and three dozen		
Lengths	18, 24, 30, 36 inch lengths		
Absorption Profile	Permanent		
Tensile Strength	Permanent		
Needle Availability	A wide variety of taperpoint (CV and MV Series) and taper cutting (KV Series) Surgalloy <sup>™</sup> needles featuring the NuCoat <sup>™</sup> needle coating technology.		

1. Surgipro<sup>™</sup> II Instructions for Use, Covidien (for chemical composition).

2. Fray Memo from R&D, Covidien.

3. Vascufil<sup>™</sup> Instructions for Use, Covidien (for chemical composition).

4. Norbert Baumgartner, Philip B. Dobrin, Mark Morasch, Quan-Sheng Dong, Robert Mrkvicka. Influence of suture technique and suture

material selection on the mechanics of end-to-end and end-to-side anastomoses. J Thorac Cardiovasc Surg 1996; 111:1063-72.

5. Pull through force comparison results between size 4-0 and size 7-0 Vascufil<sup>™</sup> and Polypropylene, Covidien DQA.

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