

Aortic

Repair Solutions

Vascular Surgery
Reinvented



ATRIUM

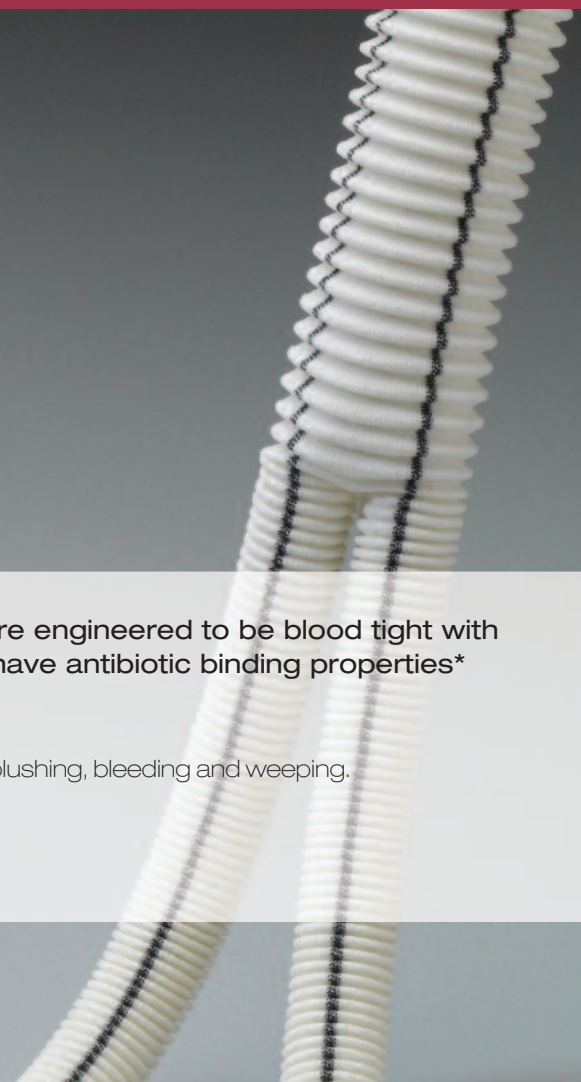


Ultramax™ Gel Infused Vascular Grafts

- **Ultimate Performance**
Superior handling and suturability
- **Instilled Confidence**
Minimal suture line bleeding allows for a confident closure
- **Gel Infused Vascular Graft**
Less thrombogenic coating with antibiotic binding properties
- **True Zero Porosity**
Virtually eliminates weeping and blushing

Atrium's Ultramax™ True Zero Porosity Vascular Grafts are engineered to be blood tight with superior handling, suturability and have been shown to have antibiotic binding properties*

- Gelatin coating offers a less thrombogenic solution for patients
- Full gelatin infusion creates a true zero porosity that minimizes blushing, bleeding and weeping.
- Gelatin coatings can act as a carrier for antibiotics



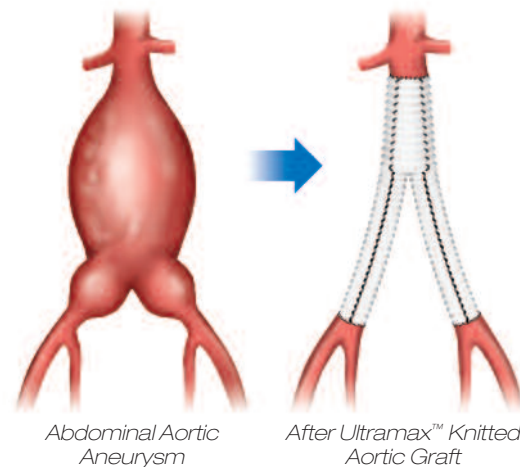
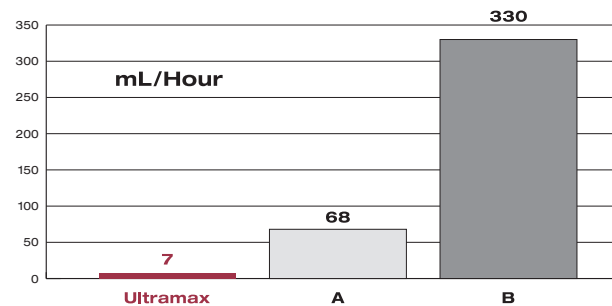


Ultramax™ Double Knitted Velour (PET) Grafts

Ultramax™ Woven (PET) Aortic Grafts

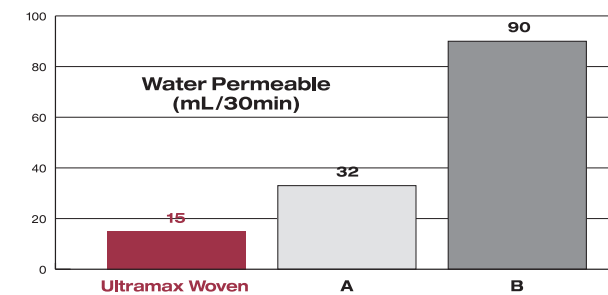
Ultramax™ Double Knitted Velour (PET) | Bifurcate and Straight Configurations

- Incredible handling
- 100% blood tight means less blushing, less blood loss and more confidence when closing
- All configurations are 100% Gel Infused for a true zero porosity
- Significantly less permeable when compared to other coated PET products



Ultramax™ Woven Aortic Grafts

- Incredible strength
- Engineered with Atrium's Total Seal™ Technology
- Gelatin Coating provides a true zero porosity
- Lowest Water Permeability when compared to competitors



*"Based on the excellent results of experimental studies with antibiotic-bonded vascular prostheses for prevention of graft infection, gelatin-sealed grafts soaked with rifampin were implanted in situ in five patients with vascular infection. All patients were at risk for limb loss or death and could not be treated by standard techniques such as graft excision and extraanatomic bypass. After a follow-up of at least 6 months, all grafts were patent without any evidence of reinfection on computed tomographic scan."*¹



Incredible strength for high flow repairs

CASE STUDY:
(Rifampin binding properties)
Groin infection after aortofemoral bypass with bleeding.

A 60-year-old man was operated on for anastomotic false aneurysm on the right side after implantation of a knitted Dacron aortofemoral bifurcation graft 4 years before. On angiography the only patent runoff was the deep femoral artery. During surgery, the suture was found to be intact and remained attached to the prosthetic material. The aneurysm was re-sected and an interposition graft from the graft limb to the proximal deep femoral artery was performed. Because the surgeon noted an absence of graft incorporation, the prosthesis was cultured to exclude occult infection. On the seventh postoperative day there was a sudden spurt of bright red blood from the drainage site. Because cultures yielded *S. aureus*, the patient was taken to the operating room and the groin wound was opened again. The knitted Dacron prosthesis implanted 1 week before was removed and a Rifampin-soaked gelatin Dacron graft (Ultramax™ Double Knitted Velour) was inserted between the old graft limb and the original arteriotomy to restore circulation. The patient did well after surgery and had no evidence of infection on CT scan 9 months after implantation of the antibiotic soaked graft. (1, Torsello, G. et. al; Journal of Vascular Surgery, 1993; 17:768-773.)

SST Aortic PTFE Repair Solutions

- **Advanced Technology**
Hydrostatic membrane prevents weeping and reduces needle hole bleeding
- **Innovative Design**
Trilaminar construction with internal ring reinforcement and natural flow divider allow for the ultimate in strength, flow dynamics and kink resistance
- **Proven Performance**
No dilation combined with PTFE's proven biocompatible construction establishes SST as an ideal solution for young patients and trauma cases

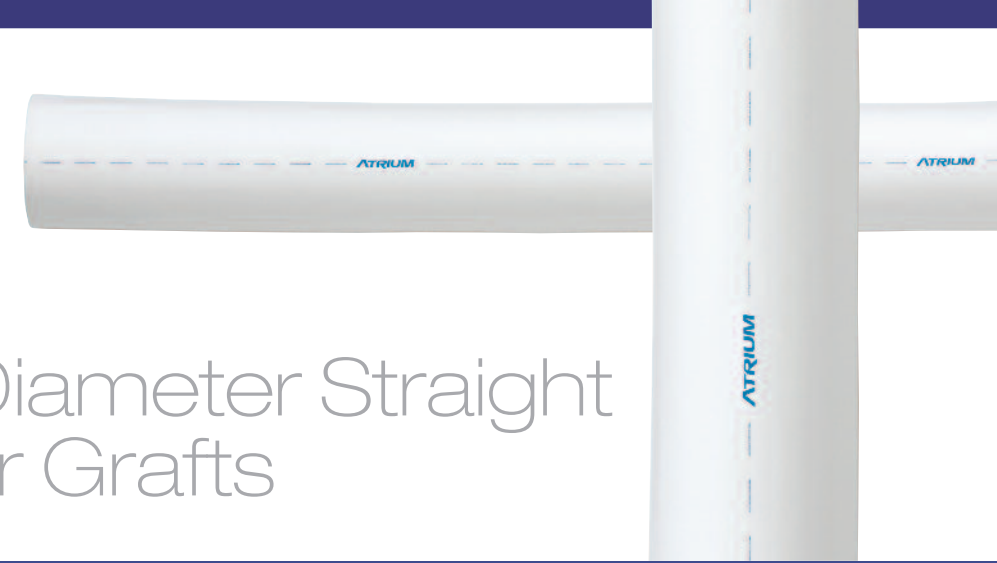
Atrium's Premium PTFE Graft Solution for Aortic Repairs:
100% PTFE offers patients an Aortic repair solution that provides them with

- No Dilation
- No Coatings
- No Surface Adhesive



SST Large Diameter Bifurcated PTFE Vascular Grafts

SST Large Diameter Straight Aortic Repair Grafts



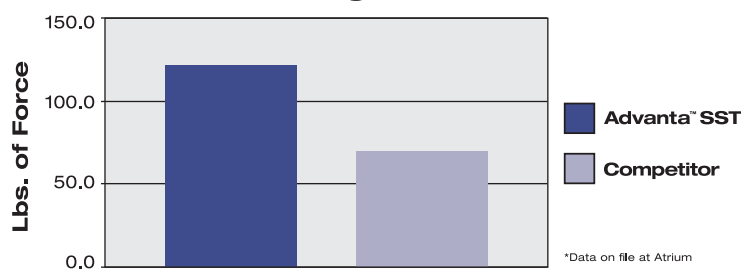
Atrium's SST Seamless Bifurcation

True Anatomical Flow divider designed to reduce turbulence at the bifurcation

Reinforced with Atrium's SST internal ring structure for ultimate flexibility and kink free positioning

- The Advanta™ SST PTFE Bifurcated Vascular Graft is designed to be the best aortic prosthesis available
- Three piece structure with a hydrostatic barrier to prevent weeping has been engineered to meet or exceed all surgical strength requirements

Unsurpassed Radial Tensile Strength*



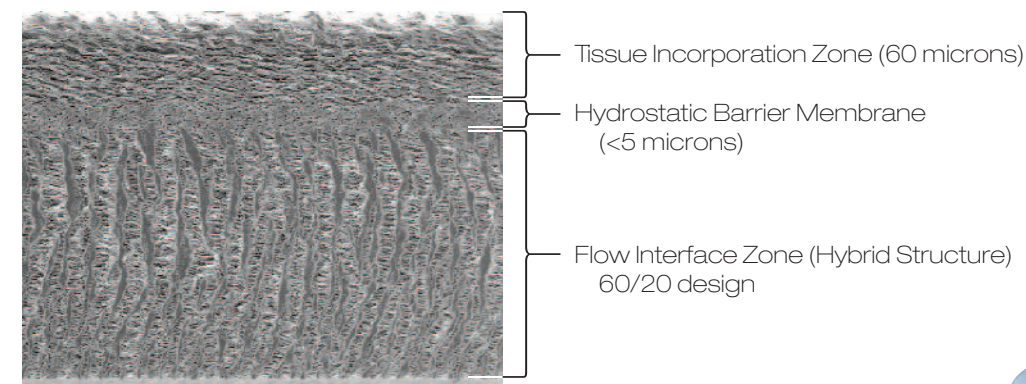
- Unsurpassed Radial Tensile Strength over nearest competitors



Abdominal Aortic Aneurysm

SST Large Diameter for Aortic Repair

- Trilaminar PTFE construction for optimal strength, handling and performance
- Hydrostatic barrier prevents weeping and reduces suture line bleeding
- Highest radial strength over nearest competitors



Smooth, Soft and Compliant

- Easier to position and trim
- Conforms to fixed anatomy
- Resists kinking



Advanta™ SST

Advanta SST Bifurcated Vascular Grafts

Diameter	Length	Code
12 x 6 mm	40 cm	24001
14 x 7 mm	40 cm	24002
16 x 8 mm	40 cm	24003
18 x 9 mm	40 cm	24004
20 x 10 mm	40 cm	24005
22 x 11 mm	40 cm	24006
24 x 12 mm	40 cm	24007

Advanta SST Large Diameter PTFE Vascular Grafts

Diameter	Length	Code
12 mm	30 cm	24013
14 mm	30 cm	24018
16 mm	30 cm	24023
18 mm	30 cm	24028
20 mm	30 cm	24033
22 mm	30 cm	24038
24 mm	30 cm	24043

Ultramax™

Bifurcates - Knitted Double Velour

Diameter	Length	Code
12 x 6 mm	40 cm	23512
12 x 7 mm	40 cm	23513
14 x 7 mm	40 cm	23514
14 x 8 mm	40 cm	23515
16 x 8 mm	40 cm	23516
16 x 9 mm	40 cm	23517
18 x 9 mm	40 cm	23518
18-10 mm	40 cm	23519
20-10 mm	40 cm	23520
20-11 mm	40 cm	23521
22-11 mm	40 cm	23522
24-12 mm	40 cm	23524

Axillo - Bifemoral Knitted Double Velour

Diameter	Length	Code
8 mm	100cm X 60 cm	23004
8 mm	100cm X 60 cm	23005
10mm	100cm X 60 cm	23006
10mm	100cm X 60 cm	23007

Straights - Knitted Double Velour

Diameter	Length	Code
6 mm	30 cm	23062
6 mm	40 cm	23063
6 mm	60 cm	23064
7 mm	60 cm	23074
8 mm	30 cm	23082
8 mm	40 cm	23083
8 mm	60 cm	23084
8 mm	100 cm	23008
10 mm	30 cm	23102
10 mm	60 cm	23104

Straights - Knitted Double Velour, Cont.

Diameter	Length	Code
12 mm	30 cm	23122
14 mm	30 cm	23142
16 mm	30 cm	23162
18 mm	30 cm	23182
20 mm	30 cm	23202
22 mm	30 cm	23222
24 mm	30 cm	23242
26 mm	30 cm	23262
28 mm	30 cm	23282
30 mm	30 cm	23302
32 mm	30 cm	23322
34 mm	30 cm	23342
36 mm	30 cm	23362
38 mm	30 cm	23382
20mm	60 cm	23204
22 mm	60 cm	23224
24 mm	60 cm	23244
26 mm	60 cm	23264
28 mm	60 cm	23284
30 mm	60 cm	23304

Straights - Woven

Diameter	Length	Code
24mm	30 cm	23246
26 mm	30 cm	23266
28 mm	30 cm	23286
30 mm	30 cm	23306
32 mm	30 cm	23326
34 mm	30 cm	23346
36 mm	30 cm	23366
38 mm	30 cm	23386

Federal (USA) law restricts this device to sale by or on the order of a physician.

Additional sizes are available. Please refer to our website **www.atriummed.com** for a complete listing of Ultramax™ and Advanta products.

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