

# StreamLiner™ Series

Sub-Lite-Wall™ StreamLiner™ VT, XT  
Sub-Lite-Wall™ StreamLiner™ OTW VT, XT, UT

## Overview-

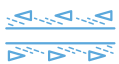
Zeus PTFE Sub-Lite-Wall™ StreamLiner™ series takes our Sub-Lite-Wall™ family to the next level with the thinnest PTFE liners in the industry. Available in both free-extruded and over-wire configurations, StreamLiner™ series opens up new pathways for advanced catheter designs.

## StreamLiner™ VT and XT-

StreamLiner VT and XT represent our thinnest and most flexible free-extruded PTFE liners. Pairing max wall thicknesses of 0.001" / 0.0254 mm (VT) and 0.00075" / 0.01905 mm (XT) with best-in-class tensile strength, free-extruded StreamLiner™ VT and XT catheter liners enable advanced catheter designs with smaller profiles or larger working channels.

## StreamLiner™ OTW VT, XT and UT -

StreamLiner™ Over-The-Wire (OTW) is the latest addition to the StreamLiner™ family and helps bridge the gap between film cast and free-extruded liner technology. StreamLiner™ OTW liners provide the same thin walls and tight tolerances as free-extruded StreamLiner™, but with softer, more flexible mechanical performance enabling next-gen catheter designs to navigate the most tortuous vasculatures.



COEFFICIENT OF FRICTION



BIOCOMPATIBLE



CONTINUOUS SERVICE TEMP



*StreamLiner™ is available in free-extruded and over-the-wire (OTW) configurations.*

## APPLICATIONS

- Catheter liners and access sheaths used in:
  - Endovascular
  - Neurovascular
  - Peripheral
  - Structural Heart
  - CRM / EP

## CAPABILITIES AND SIZING

- Free-Extruded
  - Inside diameters: 0.004" – 0.120" (0.102 mm – 3.048 mm)
  - Wall thicknesses: 0.0005" – 0.00075" (0.0127 mm – 0.01905 mm)
- Over-The-Wire
  - Inside diameters: 0.013" – 0.0915" (0.330 mm – 2.324 mm)
  - Wall thicknesses: 0.0004" – 0.00075" (0.0102 mm – 0.01905 mm)
- Cut lengths available in straight lengths (max cut length 86" / 2184.4 mm)

## KEY PROPERTIES

- Highly lubricity
- Improved flexibility
- High tensile strength
- Biocompatibility
- Chemical resistance
- ETO and autoclave sterilizable
- Excellent dielectric insulating properties



# PTFE StreamLiner™

All PTFE Streamliner™ liners are produced based on customer specifications and the chart below is a general capability guide. All material can be etched on the OD to enhance adhesion. For even greater adhesion, a tie layer coating can also be applied.

PTFE StreamLiner™		
	StreamLiner™ VT	StreamLiner™ XT
Process	Free-Extruded	Free-Extruded
Material	PTFE	PTFE
Inside Diameter (ID)	0.004" to 0.120" 0.102 mm to 3.048 mm	0.004" to 0.040" 0.102 mm to 1.016 mm
ID Tolerance +/-	0.0005" to 0.001" 0.0127 mm to 0.0254 mm	0.0005" to 0.001" 0.0127 mm to 0.0254 mm
Nominal Wall Thickness	0.00075" 0.01905 mm	0.0005" 0.0127 mm
Wall Tolerance +/-	0.00025" 0.00635 mm	0.00025" 0.00635 mm
Cut Length	86" Max 2184.4 mm	86" Max 2184.4 mm
Surface Treatments	Etched, Tie Layer	Etched, Tie Layer
Sterilization Methods	Autoclave, EtO	Autoclave, EtO

# PTFE StreamLiner™ Over-The-Wire

The chart below is a general capability guide. All material can be etched on the OD to enhance adhesion.

PTFE StreamLiner™ Over-The-Wire			
	Streamliner™ OTW VT	Streamliner™ OTW XT	Streamliner™ OTW UT
Process	Extruded Over-The-Wire	Extruded Over-The-Wire	Extruded Over-The-Wire
Material	PTFE	PTFE	PTFE
Inside Diameter (ID)	0.013" to 0.0915" 0.330 mm to 2.324 mm	0.013" to 0.040" 0.330 mm to 1.016 mm	0.013" to 0.020" 0.330 mm to 0.508 mm
ID Tolerance +/-	0.0005" 0.0127 mm	0.0005" 0.0127 mm	0.0005" 0.0127 mm
Nominal Wall Thickness	0.00075" 0.01905 mm	0.0005" 0.0127 mm	0.0004" 0.0102 mm
Wall Tolerance +/-	0.00025" 0.00635 mm	0.00025" 0.00635 mm	0.0002" 0.0051 mm
Cut Length	86" Max 2184.4 mm	86" Max 2184.4 mm	86" Max 2184.4 mm
Surface Treatments	Etched	Etched	Etched
Sterilization Methods	Autoclave, EtO	Autoclave, EtO	Autoclave, EtO

