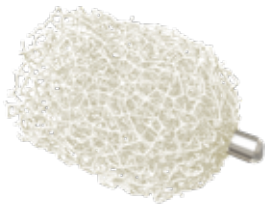


# Shape Memory Polymer

## The complete embolization solution



**IMPEDE®**  
Embolization Plug



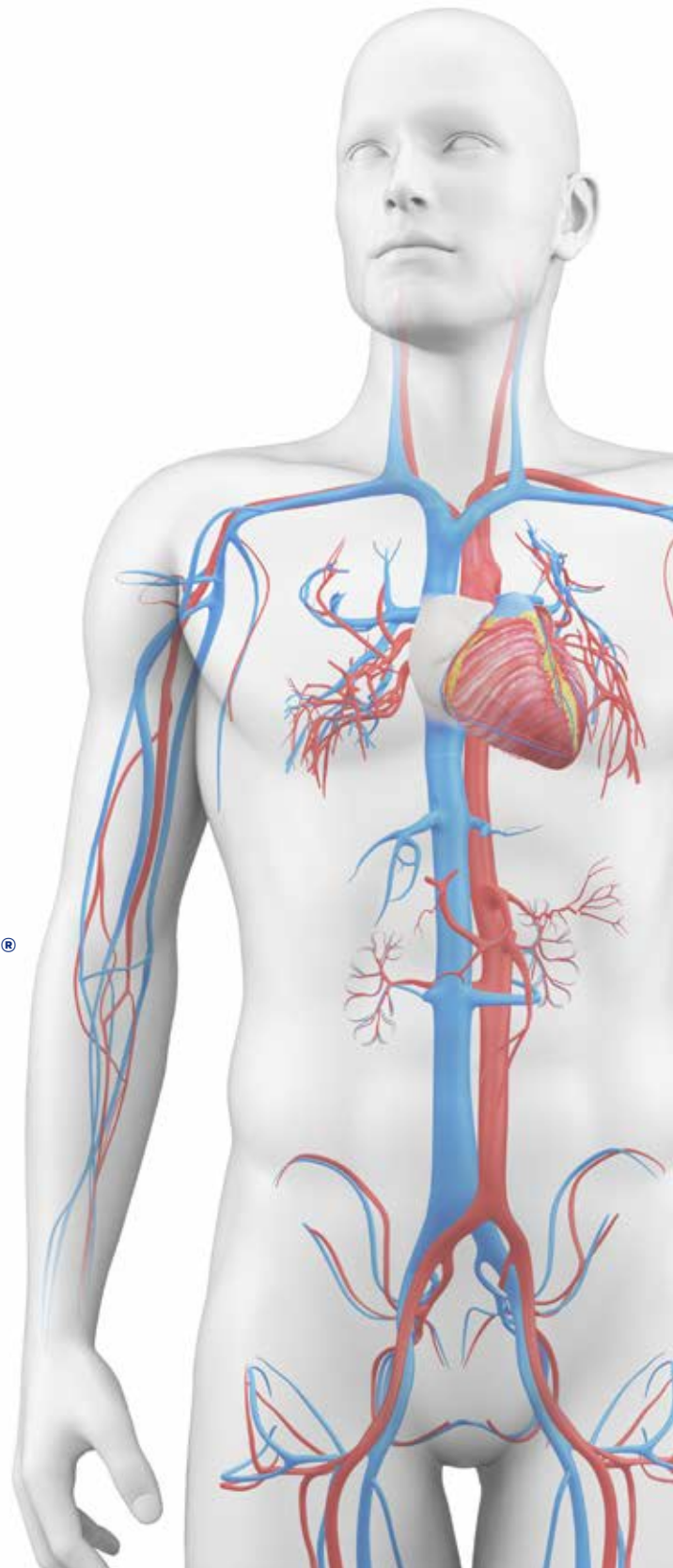
**IMPEDE-FX**  
Embolization Plug



**IMPEDE-FX RapidFill®**  
Device



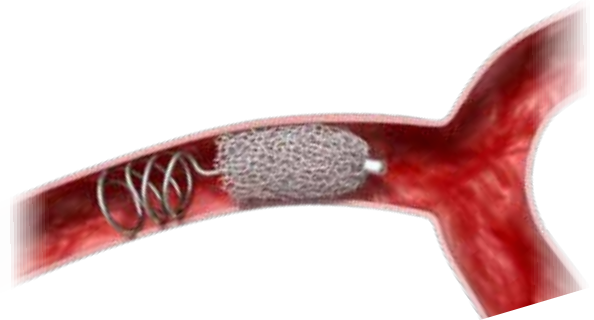
**TrelliX®**  
Embolic Coil



# The science of Shape Memory Polymer

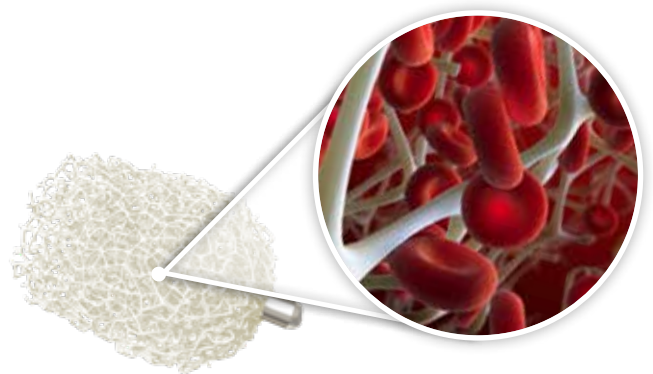
## PREDICTABLE SPACE FILL

Uniform, high volume space fill  
Controlled deployment and fill  
Compliant, conformable material



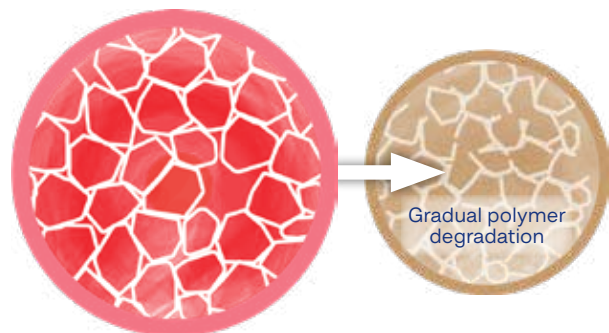
## STABLE CLOT FORMATION

Thrombus formation throughout  
porous embolic scaffold<sup>†</sup>



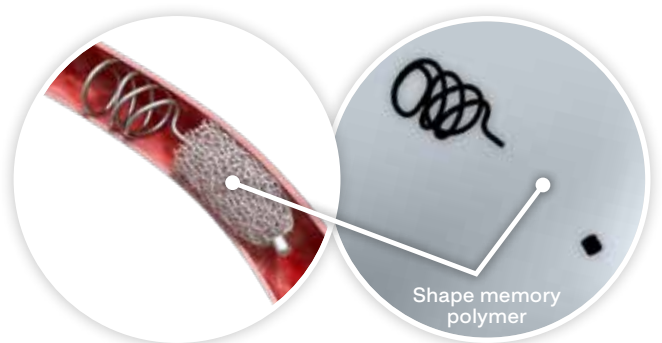
## PROGRESSIVE HEALING

Conversion of acute thrombus to  
mature connective tissue  
No chronic, active inflammation<sup>†</sup>  
Gradual, steady rate of shape  
memory polymer degradation<sup>†</sup>



## CLEAR IMAGING

Radiolucent shape memory  
polymer facilitates procedural  
and follow-up imaging of  
surrounding anatomy



# Shape Memory Polymer family

## Peripheral vascular embolization

### IMPEDE Embolization Plug

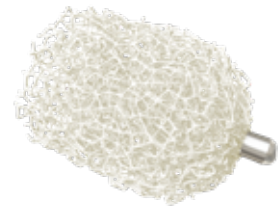
Up to **1.25 mL** volume fill capacity  
Nitinol anchor coil for secure positioning  
Beneficial in high flow conditions



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### IMPEDE-FX Embolization Plug

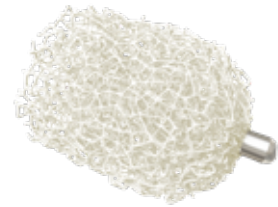
Up to **1.25 mL** volume fill capacity  
Short landing zone required  
Minimal radial force for low vessel trauma



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### IMPEDE-FX RapidFill

**~6.25 mL** embolic material in a single step  
Rapidly fills space when multiple devices are indicated  
Less radiation and contrast  
Shorter procedure times



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### TrelliX Embolic Coil

Reach distal, tortuous anatomy  
3x packing density compared to bare metal coil  
0.021" microcatheter compatible  
0.030" expanded polymer nominal diameter



# Dimensions & details

## IMPEDE Family (Pushable)

		IMPEDE			IMPEDE-FX			IMPEDE-FX Rapid Fill	
		IMP-05	IMP-07	IMP-10	IMP-FX-06	IMP-FX-08	IMP-FX-12	IMP-FX-12x5	
Vessel diameter	mm	2 – 5	4 – 7	6 – 10	–	–	–	–	
Proximal marker diameter	inch	.032	.046	.065	.032	.046	.065	.065	
	mm	0.81	1.17	1.65	0.81	1.17	1.65	1.65	
Expanded SMP plug diameter	mm	6	8	12	6	8	12	12	
SMP plug length	mm	10	10	15	10	10	15	15	
Anchor coil diameter	mm	7	9	13	–	–	–	–	
Anchor coil length	cm	8	9	15.5	–	–	–	–	
Catheter ID*	min	inch	.038	.055	.070	.038	.055	.070	.070
	max		.057	.071	.090	.057	.071	.090	.090
	min	mm	0.97	1.40	1.78	0.97	1.40	1.78	1.78
	max		1.45	1.80	2.29	1.45	1.80	2.29	2.29

SMP, shape memory polymer. \*Catheter recommendations based on .035" guidewire.

## TrelliX Embolic Coil

Part Number	Diameter (mm)	Length LL (cm)							
		02	04	06	08	10	12	15	20
TCF-18-03-LL	3	●	●	●	●	●			
TCF-18-04-LL	4			●	●	●	●		
TCF-18-05-LL	5			●	●	●		●	
TCF-18-06-LL	6				●	●		●	
TCF-18-07-LL	7						●	●	●
TCF-18-08-LL	8							●	●
TCF-18-09-LL	9							●	●
TCF-18-10-LL	10							●	●
TCF-18-11-LL	11								●
TCF-18-12-LL	12								●
TCF-18-14-LL	14								●
TCF-18-16-LL	16								●
TDC-1	TrelliX Detachment Controller (5-pack)**								

TrelliX Embolic Coils are compatible with standard .021" microcatheters. SMP self-expands to .030" nominal diameter in vessel. \*\*Electrolytic detachment mechanism, single-use disposable.

**INDICATION:** The IMPEDE Embolization Plug, the IMPEDE-FX Embolization Plug, and the IMPEDE-FX Rapid Fill are indicated to obstruct or reduce the rate of blood flow in the peripheral vasculature.

**INDICATION:** The TrelliX Embolic Coil System is intended to obstruct or occlude blood flow in vascular abnormalities of the neurovascular and peripheral vessels. Indications include: Intracranial aneurysms, other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae, arterial and venous embolizations in the peripheral vasculature.

**INDICATION:** The TrelliX Detachment Controller is intended for use with the TrelliX Embolic Coil System which is intended to obstruct or occlude blood flow in vascular abnormalities of the neurovascular and peripheral vessels. Indications include: Intracranial aneurysms, other neurovascular abnormalities such as arteriovenous malformations and arteriovenous fistulae, arterial and venous embolizations in the peripheral vasculature.

‡ Evidence from preclinical studies. The images are illustrative and do not represent actual vessel anatomy, nor the actual size of any products.

**Patent:** [www.shapemem.com/patents](http://www.shapemem.com/patents)

Shape Memory Medical, IMPEDE, IMPEDE-FX RapidFill, and TrelliX are registered trademarks of Shape Memory Medical, Inc.

Indications, contraindications, warnings, and instructions for use can be found in the product labeling supplied with each device.

[www.shapemem.com](http://www.shapemem.com)



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