Shape Memory Polymer

The complete embolization solution



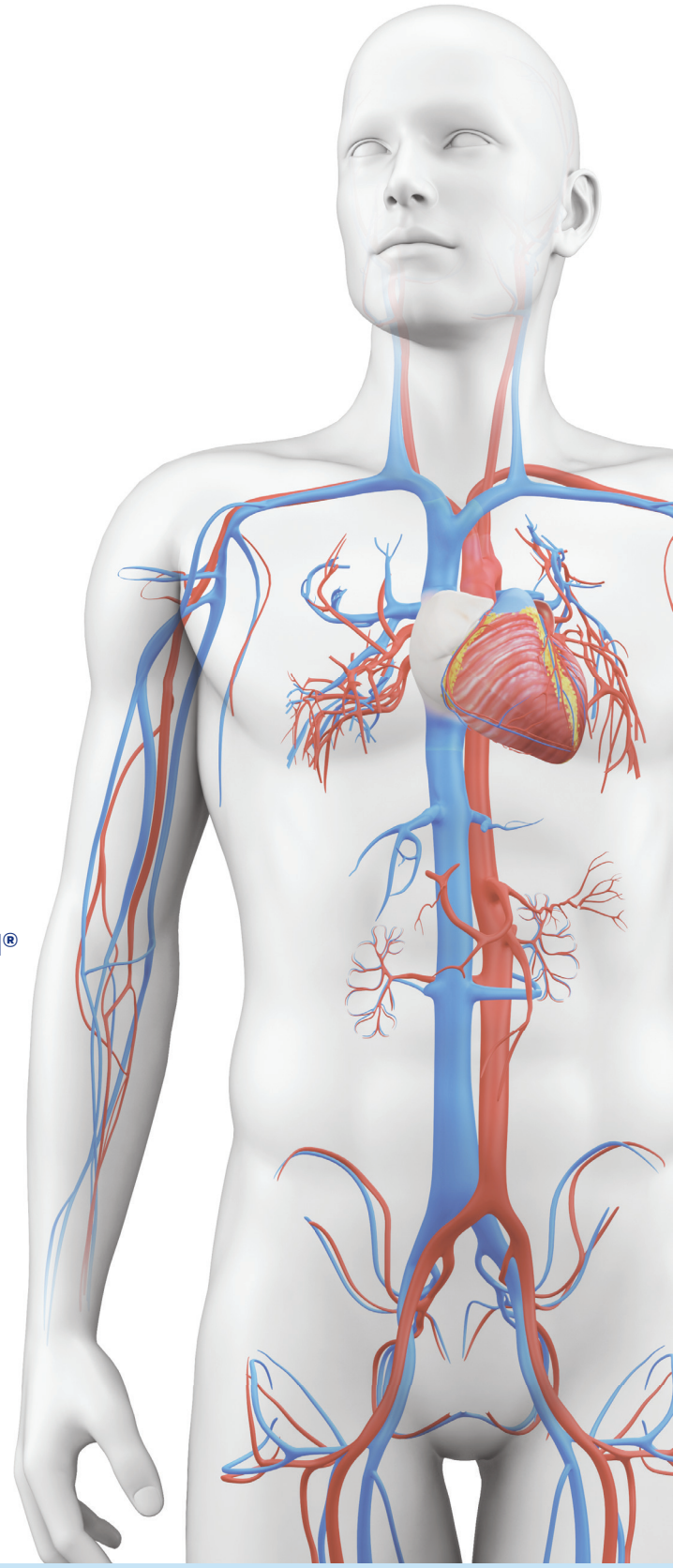
IMPEDE®
Embolization Plug



IMPEDE-FX
Embolization Plug



IMPEDE-FX RapidFill®
Device



shape memory medical

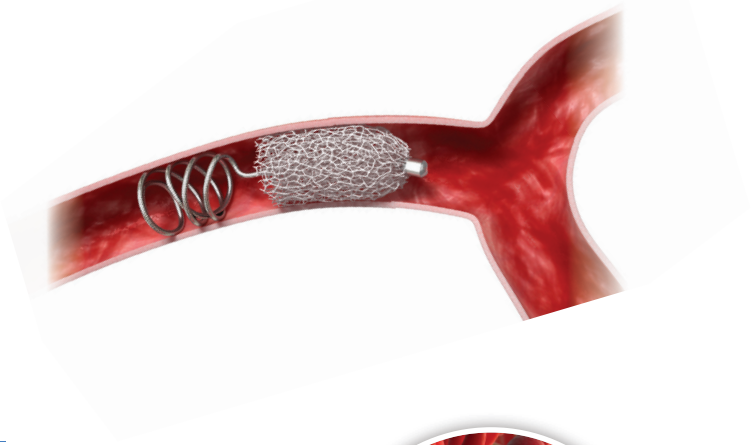
The science of
Shape Memory Polymer

PREDICTABLE SPACE FILL

Uniform, high volume space fill

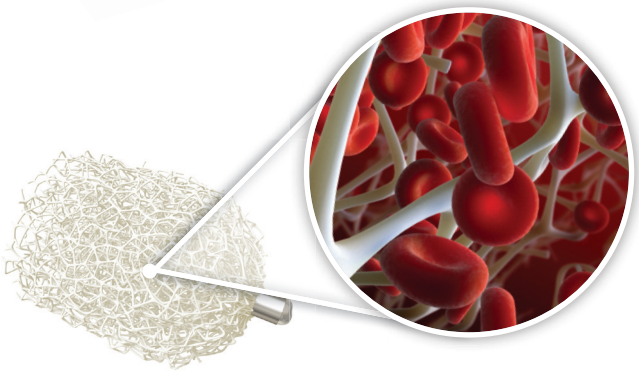
Controlled deployment and fill

Compliant, conformable material



STABLE CLOT FORMATION

Thrombus formation throughout porous embolic scaffold‡

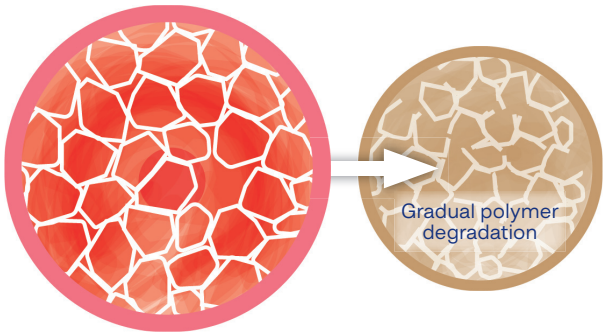


PROGRESSIVE HEALING

Conversion of acute thrombus to mature connective tissue

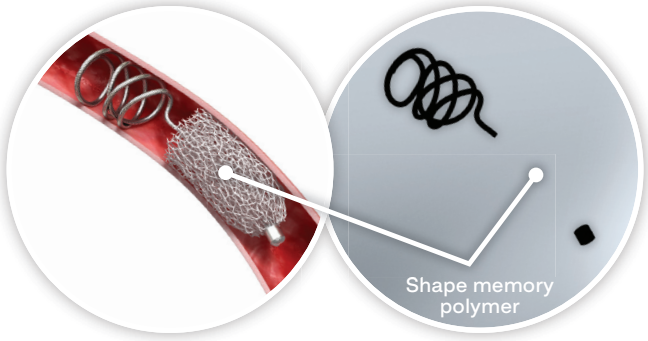
No chronic, active inflammation‡

Gradual, steady rate of shape memory polymer degradation‡



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

IMPEDE-FX Embolization Plug



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

IMPEDE-FX RapidFill



5X IMPEDE-FX-12

~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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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 mm	.032 0.81	.046 1.17	.065 1.65	.032 0.81	.046 1.17	.065 1.65	.065 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 max	inch	.038 .057	.055 .071	.070 .090	.038 .057	.055 .071	.070 .090	.070 .090
	min max	mm	0.97 1.45	1.40 1.80	1.78 2.29	0.97 1.45	1.40 1.80	1.78 2.29	1.78 2.29

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

	IMPEDE	IMPEDE-FX
CRIMPED		
EXPANDED		

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.

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

‡ 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

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CE 0297

LIT1144 Rev B

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