Shape Memory Polymer
Expanding embolization solutions

Space-filling embolization technology

IMPEDE® Embolization Plug
IMPEDE-FX Embolization Plug
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

Maximum space-filling
Stable occlusion & minimal artifact

IMPEDE-FX Embolization Plug
Up to 1.25 mL volume fill capacity
Short landing zone required
Minimal radial force for low vessel trauma

Maximum space-filling
Stable occlusion & minimal artifact

†For illustrative purposes only, IMPEDE-FX is indicated for use in combination with IMPEDE
### Dimensions & Details

#### IMPEDE

**CRIMPED**

![CRIMPED Image]

**EXPANDED**

![EXPANDED Image]

<table>
<thead>
<tr>
<th></th>
<th>IMPEDE</th>
<th>IMPEDE-FX</th>
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</thead>
<tbody>
<tr>
<td>Vessel diameter</td>
<td>IMP-05</td>
<td>IMP-07</td>
</tr>
<tr>
<td></td>
<td>2 - 5</td>
<td>4 - 7</td>
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<tr>
<td>Proximal marker diameter</td>
<td>.032</td>
<td>.046</td>
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<tr>
<td></td>
<td>0.81</td>
<td>1.17</td>
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<tr>
<td>Expanded SMP plug diameter</td>
<td>6</td>
<td>8</td>
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<tr>
<td>SMP plug length</td>
<td>IMP-05</td>
<td>IMP-07</td>
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<tr>
<td></td>
<td>10</td>
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<tr>
<td>Anchor coil diameter</td>
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<td>9</td>
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<tr>
<td>Catheter ID*</td>
<td>IMP-05</td>
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<tr>
<td>min max</td>
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<td>.055</td>
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<td></td>
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<td>min max</td>
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<tr>
<td></td>
<td>1.40</td>
<td>1.80</td>
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</tbody>
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*SMP: shape memory polymer.
*Catheter recommendations based on .035" guidewire.

**INDICATION:** The IMPEDE Embolization Plug is indicated to obstruct or reduce the rate of blood flow in the peripheral vasculature.

**INDICATION:** The IMPEDE-FX Embolization Plug is indicated for use with the IMPEDE Embolization Plug to obstruct or reduce the rate of blood flow in the peripheral vasculature.

**CAUTION:** Federal (U.S.A.) law restricts this device to sale by or on the order of a physician. 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](http://www.shapemem.com/patents)

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www.shapemem.com