

# EXPAND YOUR EMBOLIZATION PRACTICE

HydroPearl™ microspheres are:

- Biocompatible and non-resorbable
- First and only Polyethylene Glycol (PEG) microspheres
- Engineered for the treatment of uterine fibroids, arteriovenous malformations (AVMs) and other hypervascular tumors



Explore the advantages of the complete portfolio of embolization solutions.



## PUSHING BOUNDARIES

Terumo Interventional Systems is **committed to your success** with innovative procedural solutions and ongoing support for your most challenging cases.

We are relentlessly seeking new ways to help you apply effective solutions and achieve **better outcomes for more patients.**



### ORDERING INFORMATION

| HYDROPEARL™ microspheres |                       |                             |                   |
|--------------------------|-----------------------|-----------------------------|-------------------|
| PRODUCT CODES            | HYDROPEARL SIZES (µm) | VOLUME OF MICROSPHERES (ml) | MICROSPHERE COLOR |
| HP2S0075                 | 75 ± 30 µm            | 2                           | Orange            |
| HP2S0200                 | 200 ± 75 µm           | 2                           | Yellow            |
| HP2S0400                 | 400 ± 75 µm           | 2                           | Blue              |
| HP2S0600                 | 600 ± 75 µm           | 2                           | Red               |
| HP2S0800                 | 800 ± 75 µm           | 2                           | Green             |
| HP2S1100                 | 1100 ± 75 µm          | 2                           | Purple            |

HydroPearl™ microspheres are contained in a 20cc pre-filled syringe of sterile physiological buffered saline (PBS) 3-year shelf life from date of manufacture.

**FIND OUT MORE** ☎ Phone: 800.862.4143 🌐 [terumo.com](http://terumo.com) 📠 Fax: 800.411.5870

#### INTENDED USE:

The HydroPearl™ microspheres are intended for the embolization of arteriovenous malformations and hypervascular tumors, including uterine fibroids.<sup>2</sup>

#### References:

1. HydroPearl IFU, PD111835 Rev. A, Revised 2017-08. 2. Data on file. 3. Paprottka KJ, et al. *In-vitro* study of physical properties of various embolization particles regarding morphology before, during and after catheter passage. *Clin Hemorheol Microcirc.* 2016;64(4):887-898. 4. Verret V, et al. The arterial distribution of embozene and embosphere microspheres in sheep kidney and uterus embolization models. *JVIR.* 2011;22(2):220-228. 5. Reprinted from *Journal of Vascular and Interventional Radiology*, 22(2), Verret V, et al. The arterial distribution of embozene and embosphere microspheres in sheep kidney and uterus embolization models, pp220-223, 2011, with permission from Elsevier.

For Rx only.  
Before using refer to **Instructions for Use** for indications, contraindications as well as warnings and precautions @ [www.terumo.com](http://www.terumo.com)  
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**HydroPearl™**  
Microspheres

# A TARGETED APPROACH

for precise embolization

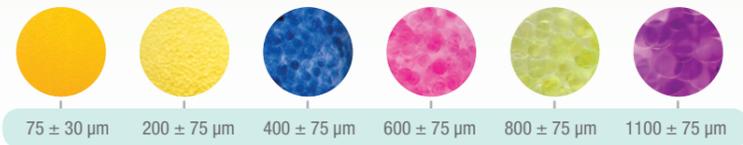


# A RELIABLE APPROACH TO EMBOLIZATION

## Predictability and quality you can see

HydroPearl™ microspheres reinforce your confidence in procedural success

**Added assurance** for proper syringe selection with six color-coded sizes - from 75 µm to 1100 µm.<sup>1</sup>



**Ease of use** with enhanced suspension characteristics for even bead distribution.<sup>2</sup>



**Significantly fewer broken beads** when mixed between syringes.<sup>2\*</sup>

HydroPearl™ 600 ± 75 µm

Embosphere® 500 - 700 µm

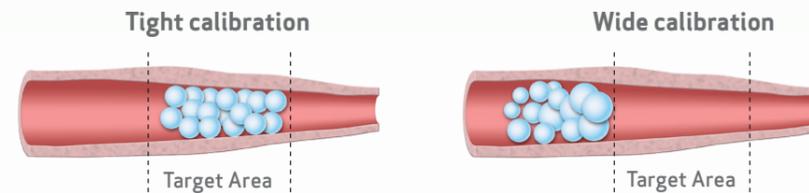


\*≤200 beads per sample mixed 20 times, followed by microscope inspection and measurement.

## Deliver particles with confidence

HydroPearl™ microspheres are engineered for more accurate embolization at the target area<sup>2,3†</sup>

**Uniform sizing** allows for more predictable particle distribution.

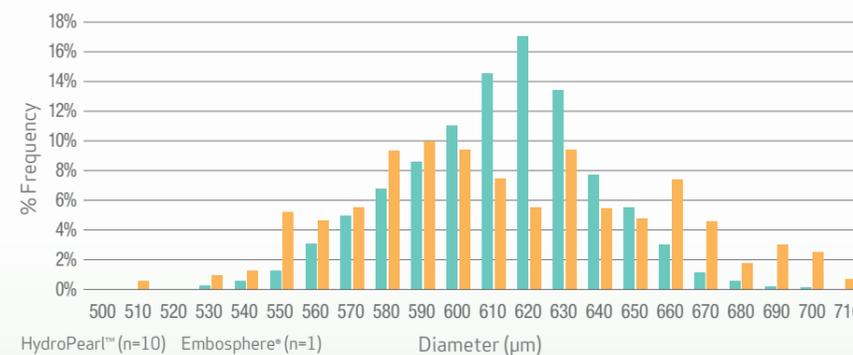


†Calibration data is 6 lots per each size of randomly selected HydroPearl™ with 1 lot of competitive products. Sampling done at minimum 150 microspheres per syringe.

## Tighter calibration closely matches specifications.

**More than 90%** of HydroPearl™ microspheres are within the range of label measurements.<sup>2</sup>

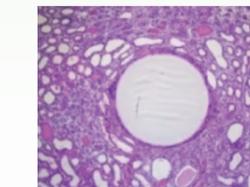
■ HydroPearl™ 600 ± 75 µm  
■ Embosphere® 500 - 700 µm



## Proven compressibility and resilience

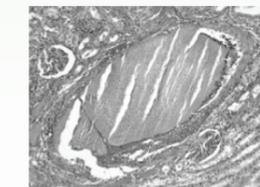
HydroPearl™ microspheres are able to retain shape, without deformation,<sup>‡</sup> after compression through a microcatheter<sup>2,4</sup>

HydroPearl™



Retains spherical shape

Embozene™



May not retain spherical shape

‡H&E stain images *in-vivo*. HydroPearl™ in porcine vasculature. Embozene™ in sheep vasculature<sup>5</sup>

**Achieve optimal compressibility** of HydroPearl™ microspheres with Progreat®, Progreat Alpha™ and GlideCath®.<sup>2</sup>

### TERUMO Catheter Capability

| HYDROPEARL™ SIZES (µm) | 75 ± 30 µm | 200 ± 75 µm | 400 ± 75 µm | 600 ± 75 µm | 800 ± 75 µm | 1100 ± 75 µm |
|------------------------|------------|-------------|-------------|-------------|-------------|--------------|
| PROGREAT® 2.0 FR       | ✓          | ✓           | ✓           | •           | •           | •            |
| 2.4 FR                 | ✓          | ✓           | ✓           | ✓           | •           | •            |
| 2.7 FR                 | ✓          | ✓           | ✓           | ✓           | ✓           | •            |
| 2.8 FR                 | ✓          | ✓           | ✓           | ✓           | ✓           | •            |
| GLIDECATH® 4.0 Fr      | ✓          | ✓           | ✓           | ✓           | ✓           | ✓            |

✓ HydroPearl™ Compatible    • Non-Compatible