

**HydroPearl™**  
Microspheres

# A TARGETED APPROACH

for precise embolization



**TERUMO**  
INTERVENTIONAL  
SYSTEMS

# 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

**Progreat®**  
Microcatheters

**Progreat Alpha®**  
Peripheral Microcatheter

**Glidecath®**  
Hydrophilic Coated Catheter

**AZUR®**  
Embolization System

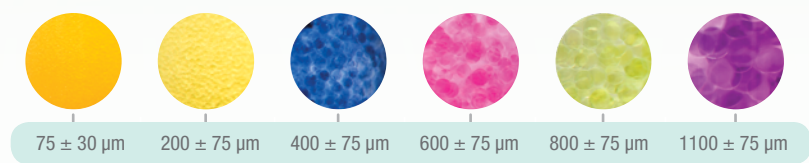
 **TERUMO**  
INTERVENTIONAL  
SYSTEMS

# 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>



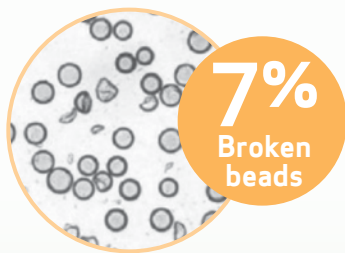
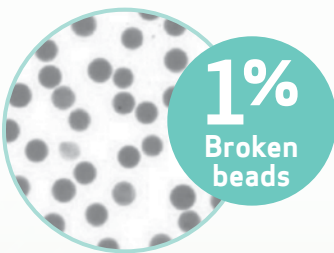
**Ease of use** with enhanced suspension characteristics for even bead distribution.<sup>2</sup>



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

HydroPearl™ 600 ± 75 µm

Embosphere® 500 – 700 µm

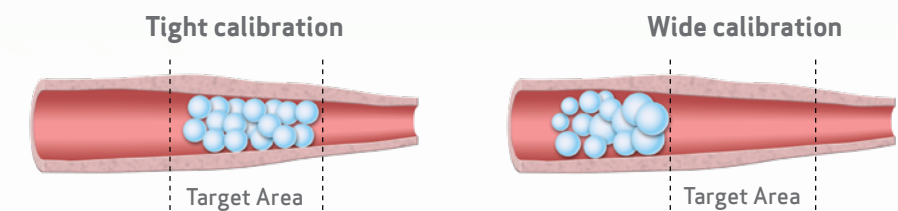


\*≤200 beads per sample mixed 20 times, followed by microscope inspection and measurement.

## 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.

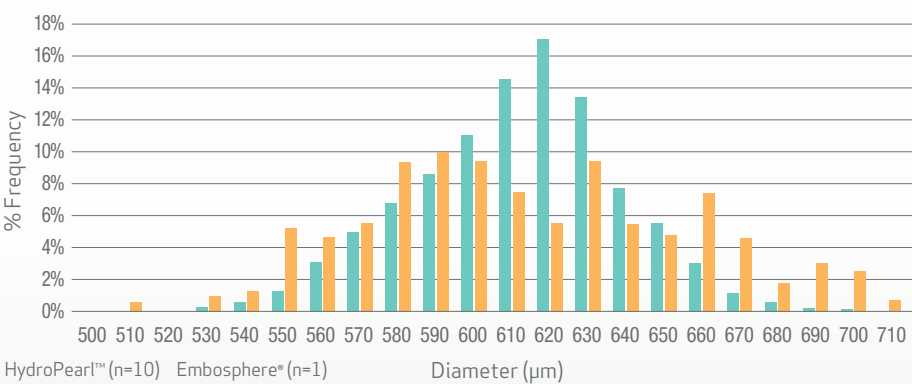


<sup>†</sup>Calibration data is 6 lots per each size of randomly selected HydroPearl™ with 1 lot of competitive products. Sampling done at minimum 150 microspheres per syringe.

## Tighter calibration closely matches specifications

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

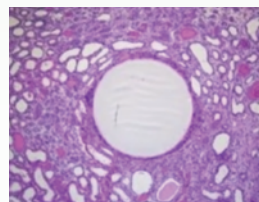
■ HydroPearl™ 600 ± 75 µm  
■ Embosphere® 500 – 700 µm



## Proven compressibility and resilience

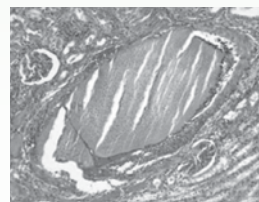
HydroPearl™ microspheres are able to retain shape, without deformation,<sup>‡</sup> after compression through a microcatheter<sup>2,4</sup>

HydroPearl™



Retains spherical shape

Embozene™



May not retain spherical shape

<sup>‡</sup>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







# 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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