

The Original Gold Standard Framing Coil

The MICRUSPHERE® Microcoil is a spherical coil designed to provide a stable, predictable frame and conform to a myriad of aneurysm shapes.

Unique Micrus® Loop Deployment

- Coil loops deploy in a 90° fashion, providing structure and stability to aneurysm dome and walls
- Enhanced neck coverage
- Anatomically compliant to the shape of each individual aneurysm

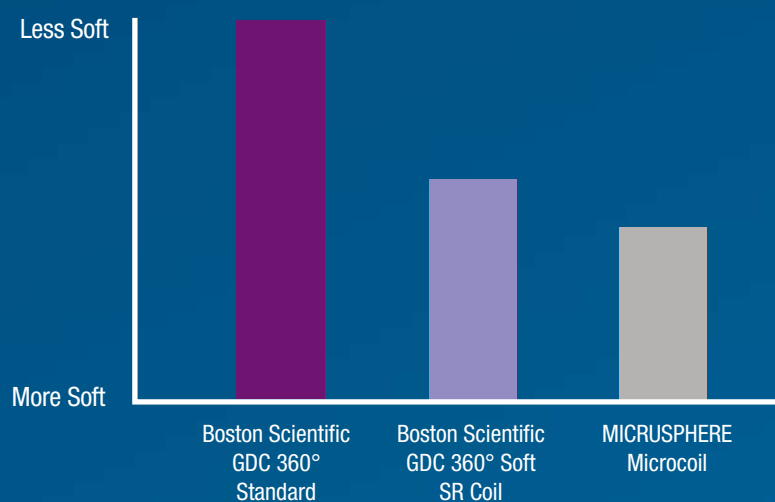
Balancing Stability with Softness

- Bench studies confirm that the MICRUSPHERE Microcoil is softer than the Boston Scientific GDC® 360° Soft SR and Standard Coils



Relative Softness Comparison

(As Measured by Spring Constant Bench Testing)†



† Data on file, Micrus Endovascular Corporation

PLATINUM® MICROCOILS		
10	MICRUSPHERE® microcoil	SPHERICAL (SPH10)
CATALOG NUMBER	SPHERICAL LOOP DIAMETER	OVERALL LENGTH
SPH100200-20	2 mm	2.5 cm
SPH100250-20	2.5 mm	3.3 cm
SPH100300-20	3 mm	5.4 cm
SPH100350-20	3.5 mm	6.6 cm
SPH100400-20	4 mm	7.5 cm
SPH100500-20	5 mm	9.7 cm
SPH100600-20	6 mm	11.9 cm
SPH100620-20	6 mm	20 cm
SPH100700-20	7 mm	13.9 cm
SPH100720-20	7 mm	20 cm
SPH100800-20	8 mm	16.1 cm
SPH100825-20	8 mm	25 cm
SPH100900-20	9 mm	18.4 cm
SPH100925-20	9 mm	25 cm
SPH101000-20	10 mm	20.3 cm
SPH101030-20	10 mm	30 cm

RECOMMENDED MICROCATETER ID: 0.014"– 0.017"

18		
MICRUSPHERE® microcoil	SPHERICAL (SPH18)	
CATALOG NUMBER	SPHERICAL LOOP DIAMETER	OVERALL LENGTH
SPH180200-20	2 mm	2.7 cm
SPH180300-20	3 mm	5.8 cm
SPH180400-20	4 mm	7.9 cm
SPH180500-20	5 mm	10 cm
SPH180600-20	6 mm	12.2 cm
SPH180700-20	7 mm	14.3 cm
SPH180800-20	8 mm	13.6 cm
SPH180900-20	9 mm	15.3 cm
SPH181000-20	10 mm	17.1 cm
SPH181100-20	11 mm	18.9 cm
SPH181200-20	12 mm	20.7 cm
SPH181300-20	13 mm	22.6 cm
SPH181400-20	14 mm	24.3 cm
SPH181500-20	15 mm	26 cm
SPH181600-20	16 mm	27.9 cm
SPH181700-20	17 mm	30 cm
SPH181800-20	18 mm	30 cm

RECOMMENDED MICROCATETER ID: 0.017"– 0.021"

CERECYTE® MICROCOILS		
10	MICRUSPHERE® microcoil	SPHERICAL (CSP10)
CATALOG NUMBER	SPHERICAL LOOP DIAMETER	OVERALL LENGTH
CSP100200-30	2 mm	2.5 cm
CSP100250-30	2.5 mm	3.3 cm
CSP100300-30	3 mm	5.4 cm
CSP100350-30	3.5 mm	6.6 cm
CSP100400-30	4 mm	7.5 cm
CSP100500-30	5 mm	9.7 cm
CSP100600-30	6 mm	11.9 cm
CSP100700-30	7 mm	13.9 cm
CSP100800-30	8 mm	16.1 cm
CSP100900-30	9 mm	18.4 cm
CSP101000-30	10 mm	20.3 cm

RECOMMENDED MICROCATETER ID: 0.014"– 0.017"

18		
MICRUSPHERE® microcoil	SPHERICAL (CSP18)	
CATALOG NUMBER	SPHERICAL LOOP DIAMETER	OVERALL LENGTH
CSP180200-30	2 mm	2.7 cm
CSP180300-30	3 mm	5.8 cm
CSP180400-30	4 mm	7.9 cm
CSP180500-30	5 mm	10 cm
CSP180600-30	6 mm	12.2 cm
CSP180700-30	7 mm	14.3 cm
CSP180800-30	8 mm	13.6 cm
CSP180900-30	9 mm	15.3 cm
CSP181000-30	10 mm	17.1 cm
CSP181100-30	11 mm	18.9 cm
CSP181200-30	12 mm	20.7 cm
CSP181300-30	13 mm	22.6 cm
CSP181400-30	14 mm	24.3 cm
CSP181500-30	15 mm	26 cm
CSP181600-30	16 mm	27.9 cm
CSP181700-30	17 mm	30 cm
CSP181800-30	18 mm	30 cm

RECOMMENDED MICROCATETER ID: 0.017"– 0.021"



821 Fox Lane
San Jose, CA 95131
United States
T 408.433.1400
F 408.433.1401

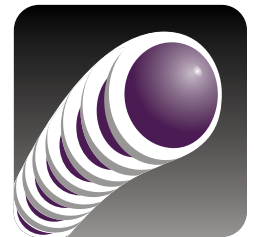
Avenue des Baumettes 7
1020 Renens
Switzerland
T +41.21.631.3434
F +41.21.631.3444

1st Floor, Unit 4
Stansted Courtyard
Takeley
Bishop's Stortford
Essex
CM22 6PU
United Kingdom
T +44.800.612.6363
F +44.800.612.8484

www.micruscorp.com

CAUTION: Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.
MICRUS, MICRUS ENDOVASCULAR, MICRUSPHERE, CERECYTE, and the M logo are registered trademarks of Micrus Endovascular Corporation.
IT'S INSIDE and the purple coil logo are trademarks of Micrus Endovascular Corporation.
GDC is a registered trademark of Boston Scientific Corporation.
© 2008 Micrus Endovascular Corporation. All rights reserved.

Cerecyte® Coils



IT'S INSIDE™



STRENGTH TAKES SHAPE

MICRUS MICROCOILS

Start with Stability

Micrus Microcoils provide a stable, predictable frame while leaving an open inner core ready for your next coil. This makes them an ideal choice for the RUSSIAN DOLL technique. Here's why.

One Loop at a Time

Micrus coils deploy outward, one loop at a time, toward the aneurysm walls. This allows the entire coil to conform to the shape of each individual aneurysm, while providing a predictable frame.

MICRUSPHERE Microcoil 8 mm x 13.6 cm



Loops deploy outward in a complete circle toward aneurysm periphery



Each loop abuts the prior loop



Designed to provide enhanced stability



Bearing an open core

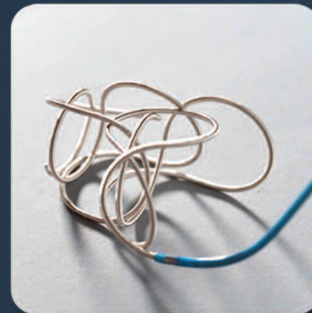
Competitive microcoil 8 mm x 20 cm



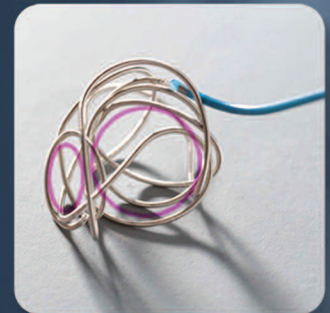
Most loops deploy in "horseshoe-shaped" increments



"Horseshoe" loops bend more freely and may provide less structure



Segments cross through center core



And create multiple compartments

Shape Matters

From the precise placement of your first microcoil to the last finishing coil, shape matters. In fact, studies have shown the clinical benefits of using spherical or complex-shaped coils in a concentric fashion¹⁻³—known as the RUSSIAN DOLL™ Coiling technique.



Micrus® Microcoils

Micrus Microcoils have a unique shape technology designed to enhance the benefits of RUSSIAN DOLL Coiling: stability, neck coverage, and dense packing.



Open Core

The outward deployment of Micrus Microcoils minimizes "section" or "segment" coiling, potentially reducing compaction, and limits loops from random herniation into the parent vessel.

**CASHMERE™ MICROCOIL
14 SYSTEM**
9 mm x 22 cm



Loops deploy to periphery

**PRESIDIO® MICROCOIL
10 SYSTEM**
8 mm x 29 cm



Stable scaffolding limits loop herniation into parent vessel

**MICRUSPHERE® MICROCOILS
10 SYSTEM**



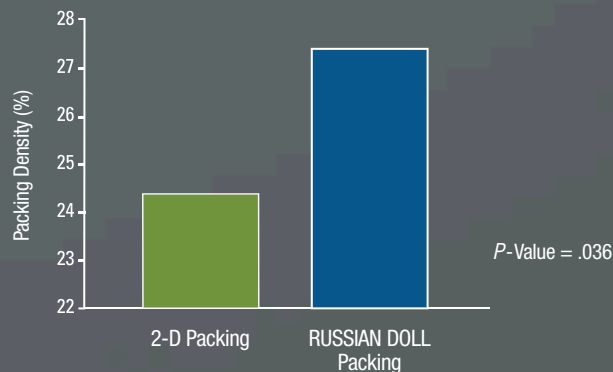
Two microcoils with core open for additional packing

Maximize Packing Density

Studies suggest that greater packing volumes and improved filling may be achieved with the RUSSIAN DOLL coiling technique.¹⁻³

Micrus bench studies have also confirmed that higher packing densities can be achieved when Micrus coils are packed using the RUSSIAN DOLL technique. This may lead to less compartmentalization and compaction.

Micrus Microcoil Packing Density*
12.5% Relative Increase



*Data on file, Micrus Endovascular Corporation.

The use of three-dimensional Micrus coils proved to be useful for improving the coil packing and angiographic and volumic occlusion of aneurysms...at the time of treatment, provided...the largest number of three-dimensional coils were first positioned.³

Optimize Neck Coverage

Neck remnants observed angiographically after coiling triple the risk of compaction and recanalization.⁴

The anatomically compliant frame and high shape memory of Micrus Microcoils are designed to improve neck coverage and provide:

- Stable scaffolding that covers the neck
- Filling of open spaces, especially in region of aneurysmal neck
- Little risk of coil protrusion through the neck, even in wide necks
- Little risk of frame deformation³

“Neck coverage is optimized with the PRESIDIO Microcoil, especially when used in the Russian Doll technique. The coil is a stable frame and an excellent filling coil, which has enabled us to coil many wide-necked aneurysms without the need for a stent.”

Avery Evans, MD, University of Virginia



Improved neck protection
with the PRESIDIO Microcoil

Micrus® Microcoils:

MICRUSPHERE® Microcoil

PRESIDIO® Microcoil

CASHMERE™ Microcoil

ULTIPAQ® Microcoil

HELIPAQ® Microcoil

INTERPAQ® Microcoil

Accessories:

EnPower™ Detachment Control Box

Detachment Control Box

Connecting Cable

REFERENCES:

1. Pletin M, Iijima A, Wada H, Moret J. Increasing the packing of small aneurysms with complex-shaped coils: an in vitro study. *AJNR Am J Neuroradiol.* 2003;24:1446-1448.
2. Wakhloo AK, Gounis MJ, Sandhu JS, Akkawi N, Schenck AE, Linfante I. Complex-shaped platinum coils for brain aneurysms: higher packing density, improved biomechanical stability, and midterm angiographic outcome. *AJNR Am J Neuroradiol.* 2007;28:1395-1400.
3. Vallee JN, Pierot L, Bonafe A, et al. Endovascular treatment of intracranial wide-necked aneurysms using three-dimensional coils: predictors of immediate anatomic and clinical results. *AJNR Am J Neuroradiol.* 2004;25:298-306.
4. Gonzalez N, Murayama Y, Nien YL, et al. Treatment of unruptured aneurysms with GDCs: clinical experience with 247 aneurysms. *AJNR Am J Neuroradiol.* 2004;25:577-583.



micrus[®]
endovascular

821 Fox Lane
San Jose, CA 95131
United States

T 408.433.1400
F 408.433.1401

Avenue des Baumettes 7
1020 Renens
Switzerland

T +41.21.631.3434
F +41.21.631.3444

1st Floor, Unit 4
Stansted Courtyard
Takeley

Bishop's Stortford
Essex
CM22 6PU
United Kingdom
T +44.800.612.6363
F +44.800.612.8484

www.micruscorp.com

CAUTION: Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.
MICRUS, MICRUS ENDOVASCULAR, PRESIDIO, MICRUSPHERE, ULTIPAQ, HELIPAQ, INTERPAQ, and the M logo are registered trademarks of Micrus Endovascular Corporation.
RUSSIAN DOLL, FRILLING, CASHMERE, and EnPower are trademarks of Micrus Endovascular Corporation.
© 2008 Micrus Endovascular Corporation. All rights reserved.