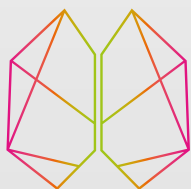




SHAPE MATTERS



CERENOVUS

PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

CERENOVUS
SPECTRA™
family of coils



CERENOVUS

PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

CERENOVUS SPECTRA™ family of coils



MICRUSFRAME™ microcoil



GALAXY G3™ microcoil



FEATURES

MICROCOIL DELIVERY SYSTEM

EASE OF USE

STABLE DEPLOYMENT

MICROCATHETER STABILITY

The CERENOVUS SPECTRA™ Family of Coils is ranked according to softness scale based on key parameters that influence spring constant. Coils are categorized on a scale of 1 to 5. Coils providing structure and stability (rated 1) and ultrasoft coils for dense packing (rated 5) create a full spectrum of softness.





CERENOVUS

PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

CERENOVUS
SPECTRA™
family of coils

MICRUSFRAME™ S

microcoil

Structure and Stability

COIL FEATURES:

- Combines the **structure** of the MICRUSFRAME™ Coil shape technology with the **stability** of a framing coil.
- Predictable stable frame creates **open inner core** for concentric filling.
- Designed to provide robust scaffolding with **excellent neck coverage** which may reduce retreatment rates¹.
- 0.0165" Microcatheter compatible.

¹ Castro, E. Interventional Radiology 2008; 14:375-384

Complex Stretch Resistant Coil

Catalog no.	Diameter	Length	Softness Scale
MFR182050	20mm	50cm	1
MFR181950	19mm	50cm	1
MFR181846	18mm	46cm	1
MFR181750	17mm	50cm	1
MFR181647	16mm	47cm	1
MFR181550	15mm	50cm	1
MFR181447	14mm	47cm	1
MFR181343	13mm	43cm	1
MFR181240	12mm	40cm	1
MFR181220	12mm	20.7cm	1
MFR181137	11mm	37cm	1
MFR181118	11mm	18.9cm	1
MFR181034	10mm	34cm	1
MFR181017	10mm	17.1cm	1
MFR180933	9mm	33cm	1
MFR180915	9mm	15.3cm	1
MFR180830	8mm	30cm	1
MFR180813	8mm	13.6cm	1
MFR180714	7mm	14.3cm	1
MFR180612	6mm	12.2cm	1
MFR180510	5mm	10cm	1

Extra Long Coils

COIL FEATURES:

Structure & Stability

- MICRUSFRAME™ S 18 Microcoil:
Primary Outer Diameter = 0.015"
- Excellent choice for aneurysms where coil structure is critical



Complex Stretch Resistant Coil

Catalog no.	Diameter	Length	Softness Scale
MFR100829	8mm	29cm	2
MFR100816	8mm	16.1cm	2
MFR100730	7mm	30cm	2
MFR100713	7mm	13.9cm	2
MFR100626	6mm	26cm	2
MFR100611	6mm	11.9cm	2
MFR100517	5mm	17cm	2
MFR100509	5mm	9.7cm	2
MFR100412	4mm	11.5cm	2
MFR100407	4mm	7.5cm	2
MFR100356	3.5mm	6.6cm	3
MFR100305	3mm	5.4cm	3
MFR100253	2.5mm	3.3cm	3
MFR100202	2mm	2.5cm	3

Extra Long Coils

COIL FEATURES:

Structure & Stability

- MICRUSFRAME™ S 10 Microcoil: Primary Outer Diameter = 0.0105".
- Coil provides soft, supportive 3D structure for aneurysm framing.



GALAXY G3™

microcoil

Random Shape, Predictable Results

COIL FEATURES:

- GALAXY G3™ Coils have a complex shape and the unique **proprietary random loop design** which does not follow a predefined shape.
- GALAXY random loops pursue a **unique path** each time they are deployed.
- **Conforms** to the true aneurysm shape and seeks open space to **fill concentrically**, from the **periphery to the core**.
- **Tight Distal Loop (TDL) Technology**: the first loop of all GALAXY G3™ Coils 4mm in diameter and larger is one third smaller than the labeled coil diameter, and is designed to facilitate the anchoring of the coil in the aneurysm.
- **Random** complex coils are shown to have **better conformability** and provide excellent framework for **concentric filling**, dense packing, and lower retreatment rates vs. other existing helical and complex coils².
- **Shape integrity** with a variety of increasing coil softness.
- 0.0165" Microcatheter compatible.

² Bendok, BR, Rahme RJ. Complex shaped detachable platinum coil system for the treatment of cerebral aneurysms: The Codman TruFill DCS and TruFill DCS Orbit Detachable Coil System COMPLEX Registry final results. J NeuroIntervent Surg 2011; DOI: 10.1136/neurointsurg-2011-010118.

Random Complex Stretch Resistant Coil

Catalog no.	Diameter	Length	Softness Scale
GLY121230	12mm	30cm	3
GLY121030	10mm	30cm	3
GLY120925	9mm	25cm	3
GLY120824	8mm	24cm	3
GLY120815	8mm	15cm	3
GLY120721	7mm	21cm	3
GLY120715	7mm	15cm	3
GLY120620	6mm	20cm	3
GLY120615	6mm	15cm	3
GLY120610	6mm	10cm	3
GLY120515	5mm	15cm	3
GLY120510	5mm	10cm	3
GLY120412	4mm	12cm	3
GLY120410	4mm	10cm	3
GLY120407	4mm	7cm	3
GLY123509	3.5mm	9cm	3
GLY123575	3.5mm	7.5cm	3
GLY120308	3mm	8cm	3
GLY120306	3mm	6cm	3
GLY122505	2.5mm	5cm	3
GLY122535	2.5mm	3.5cm	3
GLY120202	2mm	2cm	3

COIL FEATURES:

Random Shape, Predictable Results

- GALAXY G3™ Microcoil:
Primary Outer Diameter = 0.012".
- Optimal balance of softness and support.
- Superior volumetric filling versus 10-System coils³.



³ White, J.B., et. al AJNR Am J Neuroradiol. 2008 Aug;29(7):1242-

Random Complex Stretch Resistant Coil

Catalog no.	Diameter	Length	Softnes Scale
GLX120410	4mm	10cm	4
GLX120408	4mm	8cm	4
GLX120406	4mm	6cm	4
GLX123509	3.5mm	9cm	4
GLX123575	3.5mm	7.5cm	4
GLX123505	3.5mm	5cm	4
GLX120308	3mm	8cm	4
GLX120306	3mm	6cm	4
GLX120304	3mm	4cm	4
GLX122505	2.5mm	5cm	4
GLX122535	2.5mm	3.5cm	4
GLX122525	2.5mm	2.5cm	4
GLX120208 ⁴	2mm	8cm	4
GLX120206 ⁴	2mm	6cm	4
GLX120204 ⁴	2mm	4cm	4
GLX120202	2mm	2cm	4
GLX120201	2mm	1.5cm	4

COIL FEATURES:

Random Shape, Predictable Results

- GALAXY G3™ XSFT Microcoil:
Primary Outer Diameter = 0.012".
- Ultra thin coil wire provides enhanced softness with maintaining high packing volume.



⁴ XTRASOFT 2X4, 2X6 and 2X8 coils feature a helical shape

Random Complex Stretch Resistant Coil

Catalog no.	Diameter	Length	Softness Scale
GLM930080	3mm	8cm	5
GLM930060	3mm	6cm	5
GLM930040	3mm	4cm	5
GLM925055	2.5mm	5.5cm	5
GLM925045	2.5mm	4.5cm	5
GLM925035	2.5mm	3.5cm	5
GLM920060	2mm	6cm	5
GLM920040	2mm	4cm	5
GLM920030	2mm	3cm	5
GLM915040	1.5mm	4cm	5
GLM915030	1.5mm	3cm	5
GLM915025	1.5mm	2.5cm	5
GLM915020	1.5mm	2cm	5
GLM910040	1mm	4cm	5
GLM910030	1mm	3cm	5
GLM910025	1mm	2.5cm	5
GLM910020	1mm	2cm	5
GLM910015	1mm	1.5cm	5
GLM910010	1mm	1cm	5

COIL FEATURES:

Random Shape, Predictable Results

- GALAXY G3™ MINI Microcoil:
Primary Outer Diameter = 0.009"
- Our softest coil in the SPECTRA portfolio made with our smallest coil wire.
- Excellent for addressing remaining spaces within the coil mass.
- Comprehensive offering of random complex coils.
- Proprietary stretch resistance technology minimizes impact to shape while offering the security of stretch resistance.



ACCESSORIES

ENPOWER®

detachment control box

Detachment control system

Catalog no.	Description
DCB2000500	ENPOWER® DCB 2
ECB00018200	ENPOWER® control cable
CCB00015700	Connecting cable

Used with:

- MICRUSFRAME® S Microcoil
- GALAXY G3™ Microcoil
- GALAXY G3™ XSFT Microcoil
- GALAXY G3™ MINI Microcoil





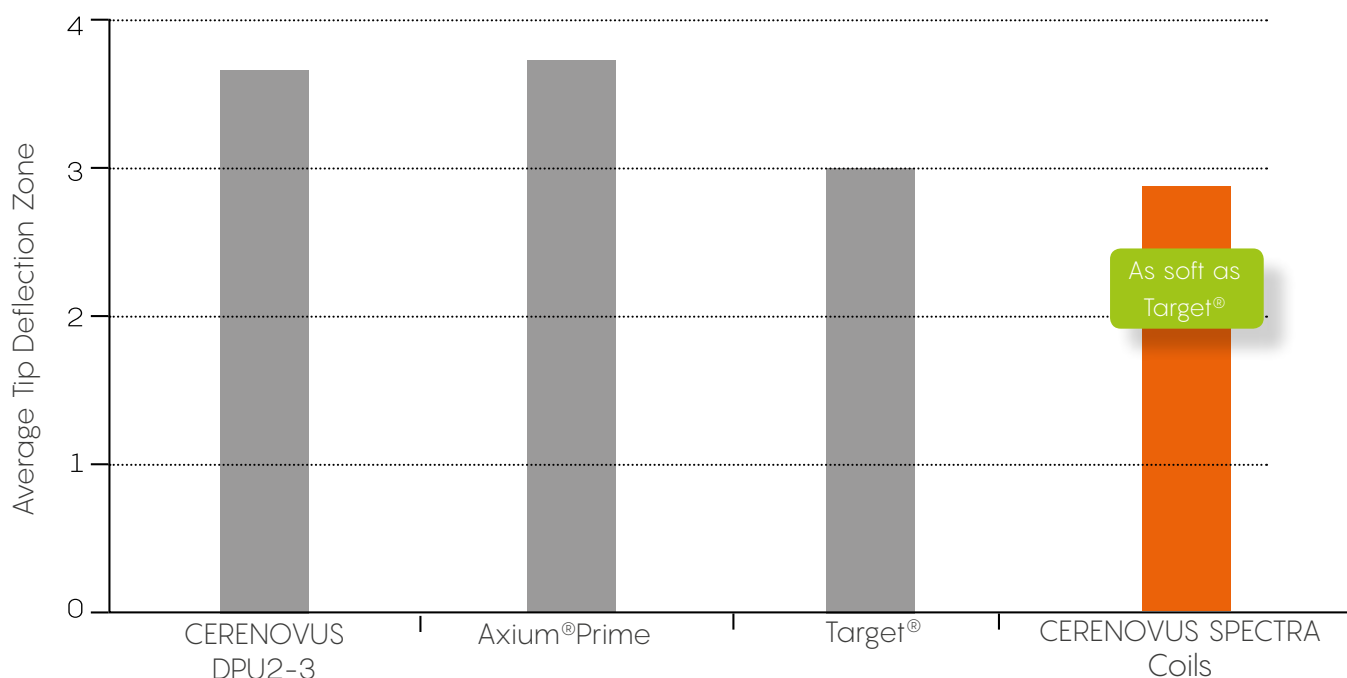
CERENOVUS

PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

CERENOVUS
SPECTRA™
family of coils

Stable Deployment

Microcatheter Tip Stability Test⁵:



⁵ ADAPTIV Report: 103225336, Codman DPU2, Axiom Prime, Target n=3, CERENOVUS SPECTRA™ Coils

Stable Deployment

The CERENOVUS SPECTRA™ Microcoil Delivery System provides:

- ✓ Reduced Microcatheter Tip Deflection.
- ✓ Improved Detachment Reliability⁶.



DELTAPLUSH® (DPU2-3)
Microcoil 1.5 mm x 3 cm



DELTAXSFT®
Microcoil 1.5 mm x 3 cm



Target® Nano™
1.5 mm x 3 cm

⁶ CERENOVUS in house testing report 103216000.



CERENOVUS

PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

CERENOVUS
SPECTRA™
family of coils

Stable Deployment

Articulating Junction

CERENOVUS SPECTRA™ Microcoils feature an articulating detachment junction. This unique feature enables precise filling and finishing in tightly packed spaces.



Stable Deployment

Innovation with Results:

In competitive testing, our CERENOVUS SPECTRA™ Microcoil Delivery System was found to be⁷:

- ✓ ... softer than the current system and Axium™ Prime
- ✓ ... as soft as Target®
- ✓ ... more deliverable than Target®
- ✓ ... more deliverable than V-Trak® Advanced
- ✓ ... more reliable detachment when compared to the current system

45%⁸ Reduction in force on the MC tip

1.9x⁹ More peak force to deliver a Target® coil

Softer than current
generation and
Axium® Prime

⁷ ADAPTIV Report: 103225336, Codman DPU2, Axium Prime, Target n=3, CERENOVUS SPECTRA™ Coils n=10.

⁸ Data memo calculation based on ADAPTIV reports: 103216002, 103207116
The 45% was calculated from Tip Deflection Force Data collected utilizing an Instron.

⁹ ADAPTIV Reports: 103226869, 103163208; n=3; Benchtop testing.



CERENOVUS

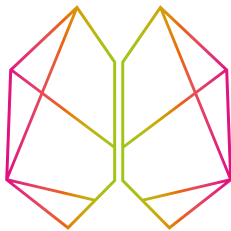
PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

CERENOVUS
SPECTRA™
family of coils

Ease of Use



Highly-Visible
Fluoro Markers with
Tactile Response for
Greater Control



CERENOVUS

PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

Limited warranty and disclaimer: CERENOVUS products are sold with a limited warranty to the original purchaser against defects in workmanship and materials. Any other express or implied warranties, including warranties of merchantability or fitness, are hereby disclaimed. Please also refer to the package insert(s) or other labeling associated with the devices identified in this document for additional information.

Caution: Federal law restricts these devices to sale by or on the order of a physician. Not all products may currently be available in all markets.

Important information: Prior to use, refer to the instructions for use supplied with this device for indications, contraindications, side effects, warnings and precautions.

Note: For recognized manufacturer, refer to the product label.

Please refer to the instructions for use for a complete list of indications, contraindications, warnings and precautions.

The third-party trademarks used herein are trademarks of their respective owners.

Legal Manufacturer:
Codman & Shurtleff, Inc.
325 Paramount Dr
Raynham, MA 02767
USA

Legal manufacturer
Medos International SARL
Chemin-Blanc 38
CH-2400 Le Locle
Switzerland

To place an order, call 1-800-255-2500.

For technical/product questions, contact your local CERENOVUS representative.