

**Onyx<sup>®</sup> LES**  
Liquid Embolic System

the advantage of time.

the power of control.

**Onyx<sup>®</sup> Liquid Embolic System is an EVOH co-polymer designed to provide full penetration and complete packing for the presurgical embolization of brain AVMs.**

**Onyx<sup>®</sup> is a liquid embolic agent that allows for:**

- A slow controlled injection and delivery method.
- The ability to stop and start the injection.
- Cohesive deposition and delivery.
- Excellent visibility.
- Control angiography during embolic injection.
- Excellent surgical handling characteristics.



# Onyx<sup>®</sup> Liquid Embolic System

PRODUCT NUMBER      ORDERING NUMBERS

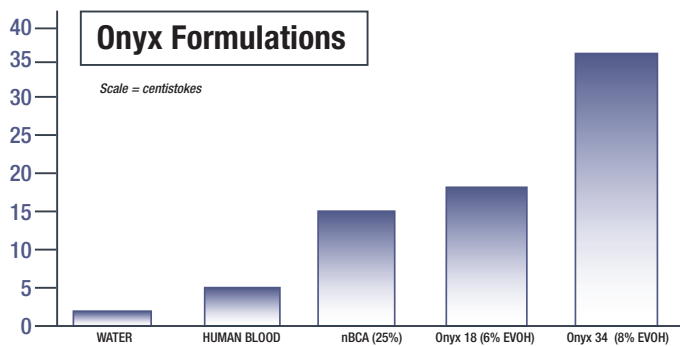
Onyx 18      105-7100-060

Onyx 34      105-7100-080

## TECHNICAL OVERVIEW:

*Onyx consists of the following components:*

- EVOH (ethylene vinyl-alcohol copolymer): The embolic material
- DMSO (dimethyl-sulfoxide): The solvent for liquid delivery of EVOH
- Micronized tantalum powder: For radiographic visualization



Viscosity Doubles Between Onyx 18 (6%) to Onyx 34 (8%)

## Packaging:

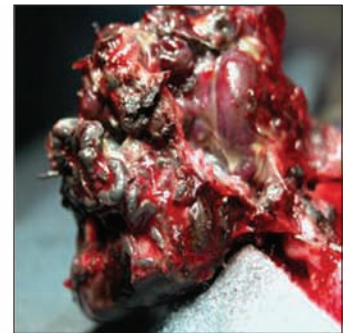
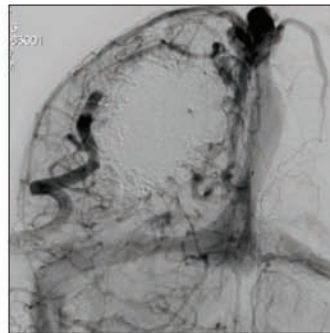
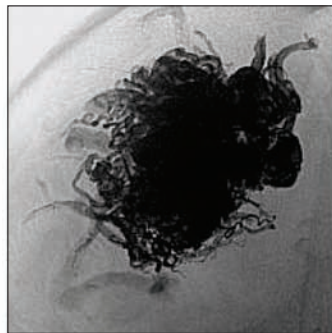
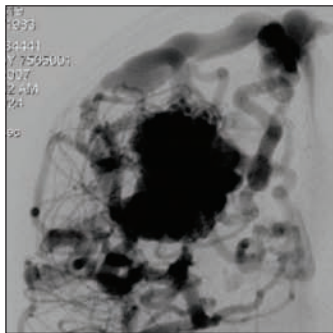
*One Onyx kit contains the following:*

- 1.5 mL vial of Onyx 18 or Onyx 34
- 1.5 mL vial of DMSO
- ev3 1 mL delivery syringes
  - 2 white for Onyx
  - 1 yellow for DMSO

## Micro Catheter Compatibility:

Onyx must be used with compatible catheters. Based on ev3 bench testing, the recommended catheters include:

- Marathon<sup>™</sup> Micro Catheter
- UltraFlow<sup>™</sup> Micro Catheter
- Echelon<sup>™</sup> Micro Catheter
- Rebar<sup>™</sup> Micro Catheter



Indications, contraindications, warnings and instructions for use can be found in the product labeling supplied with each device. **CAUTION:** Federal (USA) law restricts this device to sale by or on the order of a physician. **CONTRAINDICATIONS:** The use of Onyx LES is contraindicated when any of the following conditions exist: 1. When optimal catheter placement is not possible; 2. When provocative testing indicates intolerance to the occlusion procedure; AND 3: When vasospasm stops blood flow. **WARNINGS:** Serious, including fatal, consequences could result with the use of the Onyx LES without adequate training. Contact your ev3 Sales Representative for information on training courses.

Onyx is a registered trademark of ev3 Inc.

Marathon, UltraFlow, Echelon and Rebar are trademarks of ev3 Inc.

### NEUROVASCULAR | PERIPHERAL VASCULAR

Access · Balloons · Embolic Coils · Embolic Protection · **Liquid Embolics** · Plaque Excision · Procedural Support · Retrieval Device · Stents

**ev3 Corporate**  
**World Headquarters**  
 Peripheral Vascular  
 9600 54th Avenue North  
 Plymouth, MN 55442-2111  
 USA  
**PH +1 763 398 7000**  
**FX +1 763 398 7001**  
 Toll-free +1 800 716 6700  
 www.ev3.net

**ev3 Neurovascular**  
 9775 Toledo Way  
 Irvine, CA 92618  
 USA  
**PH +1 949 837 3700**  
**FX +1 949 837 2044**

**ev3 Europe**  
**International Headquarters**  
 106-108 rue La Boétie  
 75008 Paris  
 France  
**PH +33 156 88 59 10**  
**FX +33 156 88 59 11**

