BICAP

SUPERCONDUCTOR™

BIPOLAR PROBE

ConMed™ Endoscopic Technologies Innovators In Hemostasis:

- First in Bipolar Probes
- First in Band Ligation
- First in Argon Beam Coagulation

SUPERIOR CONTACT & CONDUCTIVITY

ConMed™
ENDOSCOPIC TECHNOLOGIES

BiCap Superconductor™ Hemostasis Probe

Achieve even energy distribution with the only bipolar hemostasis probe with three pairs of electrodes

- BiCap Superconductor™ Probes have three pairs of electrodes and a ceramic tip to help provide consistent power distribution and heat dissipation. Other probes have plastic tips with only one pair.
- Omnidirectional electrode spacing and large electrode area provide thermal heating with reduced tissue sticking and larger area coverage.
- Silver has 35% higher thermal conductivity and 28% less electrical resistivity than gold resulting in more efficient hemostasis.
- Available with a short 3.3mm probe tip length for easier passage through a deflected scope.
- Color-coded shafts allow for the easy identification of size.
- Central irrigation channel to improve visibility.

BiCap Superconductor™ has three pairs of parallel electrodes

Other probes only have one spiral pair

View En Face BiCap Probe

BiCap Superconductor™

- BiCap® has 3 times the electrodes
- Longitudinal design in direction with passage of probe through scope
- Constant gap width between electrodes for more even tissue treatment
- More electrodes per surface area on distal face of probe tip
- Majority of probe still operational in the event of a break in the electrode

View En Face Gold Probe™

Gold Probe™

- Spiral probe design leaves vulnerable edge exposed to wear during throughput
- Inconsistent gap width between electrodes for less even tissue treatment
- Less electrodes per surface area on distal face of probe tip. Less tissue contact
- Entire probe may fail in the event of a break in the electrode

Controlled Irrigation System

A controlled irrigation system through the probe lumen allows optimum pulsation of fluid for precision site cleaning. Tissue is heated directly and quickly without first heating the probe tip.

Pre-Treatment Wash

Tamponade And Vessel Bonding

Hemostasis Probe Performance Comparison

There are many parameters involved with the selection of a hemostasis probe. The following comparisons summarize studies that evaluated hemostasis probes for stiffness, lubricity, tissue sticking and irrigation force.

Conductivity

Silver has the lowest electrical resistance and highest thermal conductivity of any metal. Silver has 35% better thermal conductivity than Gold. Silver has 28% less electrical resistance than Gold. The BiCap Superconductor™ Probe has 3 pairs of silver electrodes while the Gold Probe™ from Boston Scientific Endoscopy only has one gold pair. Higher conductivity means that heat can be transferred more efficiently. The lower the resistance the better electrical energy can flow. With Silver as the best conductor, the BiCap Superconductor™ probe is a more efficient hemostasis probe.

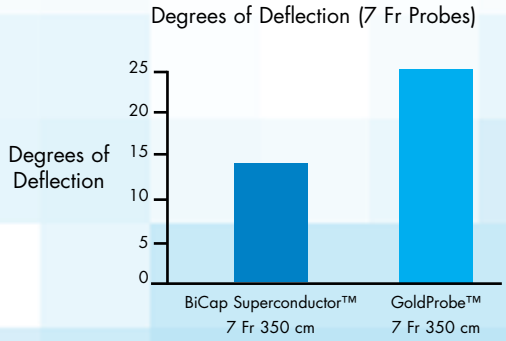
THERMAL CONDUCTIVITY (298K)	
SILVER	429
COPPER	386
GOLD	317
ALUMINUM	237
BRASS	120

RESISTIVITY OF SELECTED MATERIALS	
	ρ (nΩ·m)
SILVER	15.9
COPPER	17.1
GOLD	22.1
ALUMINUM	26.5
BRASS	64.0

(Source: The Physics Hypertextbook™ © 1998-2005 by Glenn Elert)

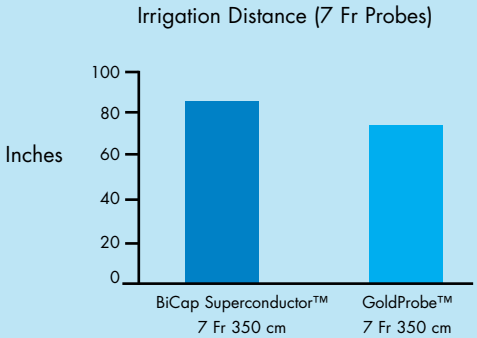
Stiffness

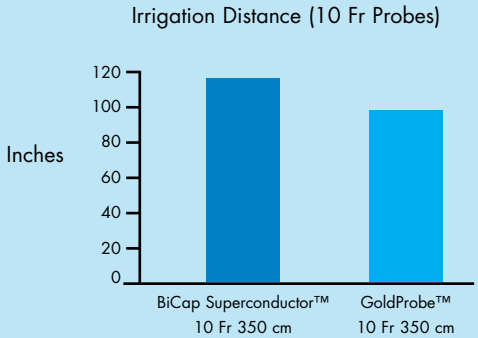
The 7Fr. BiCap Superconductor™ probe provides approximately 46% more shaft stiffness vs the leading competitive 7Fr probe. Shaft stiffness determines the degree of tamponade affect. The chart indicates how the tip of the BiCap Superconductor™ Probe bends less when a given force was applied.*



Irrigation Force

The 10Fr BiCap Superconducutor™ Probe provides approximately 20% more irrigation force versus the leading competitive 10Fr probe. The 7Fr probe provides approximately 15% more irrigation force versus the leading competitive 7 Fr probe. The force of the irrigation solution helps remove blood and clots from the ulcer base. The chart quantifies the force of irrigation flow by indicating the distance of the water jet when the probe is horizontal 30 inches above the ground.*





* Data on file

BICAP SUPERCONDUCTOR™ PROBES

BiCap Superconductor™ Probes

Sterile, Disposable

Catalog Number	Description	Shaft Size	Length	Tip Length	Color	Unit
BP-5200A	Bipolar Hemostasis Probe	5 Fr	200 cm	6.5 mm	Blue	1/box
BP-7300A	Bipolar Hemostasis Probe	7 Fr	300 cm	6.5 mm	Yellow	1/box
BP-7350A	Bipolar Hemostasis Probe	7 Fr	350 cm	6.5 mm	Yellow	1/box
BP-7350S	Bipolar Hemostasis Probe	7 Fr	350 cm	3.3 mm	Yellow	1/box
BP-10300A	Bipolar Hemostasis Probe	10 Fr	300 cm	6.5 mm	Orange	1/box

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MBR 9055 Rev 2