

IsoCool®

BIPOLAR FORCEPS WITH ACTIVE HEAT TRANSFER

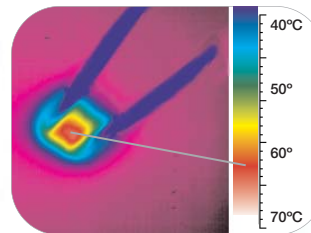
NEW
EVIDENCE

EVALUATE THE EVIDENCE FOR FORCEPS USING ACTIVE HEAT TRANSFER (AHT™) TECHNOLOGY TO EFFECTIVELY MANAGE TEMPERATURE AND REDUCE TISSUE DAMAGE.

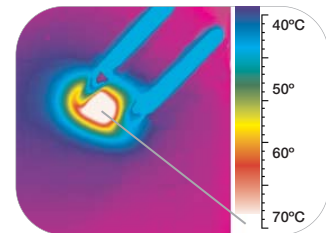
When using bipolar forceps to coagulate delicate tissue, precision temperature management is critical to avoid collateral tissue damage. ISOCOOL® forceps, using Active Heat Transfer technology, were compared to Stryker SILVERGLIDE (SG) and Aesculap ROSE GOLD (RG) forceps, which do not utilize AHT. The devices were assessed using Infrared thermography as well as *ex vivo* lesion analysis and *in vivo* histology.

EVIDENCE: THERMAL IMAGING

Active Heat Transfer technology allows ISOCOOL to achieve and maintain lower temperatures during coagulation, minimizing sticking and charring.



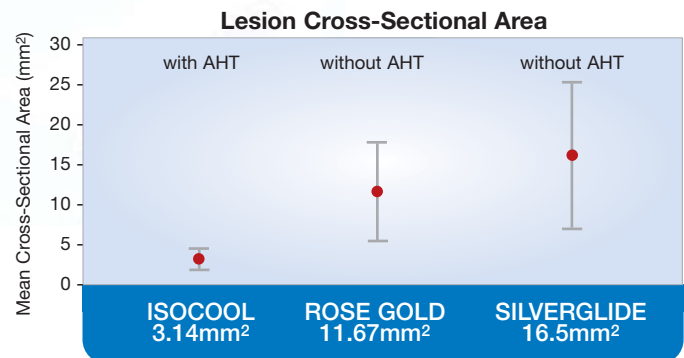
ISOCOOL WITH AHT



COMPETITIVE FORCEPS WITHOUT AHT

EVIDENCE: EX VIVO LESION ANALYSIS (CALF LIVER MODEL)*

Cross-sectional areas of lesions created by ISOCOOL forceps with AHT were consistently and significantly (3-5X) smaller than forceps without AHT, minimizing inadvertent collateral tissue damage.*



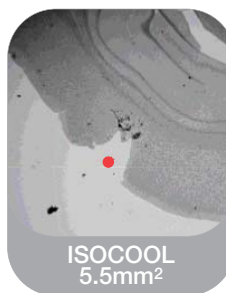
Mean cross-sectional area, 95% confidence interval (p=0.02).

Lesions generated at 35 & 50MU with 3 & 10 second activation times, done in duplicate.

A standard staining technique was used to determine lesion size utilizing a 2% solution of Tetrazolium Red.

EVIDENCE: IN VIVO HISTOLOGY (RODENT BRAIN MODEL)*

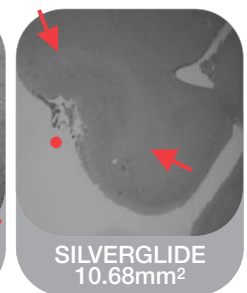
ISOCOOL with AHT produced comparatively more precise coagulation with less collateral tissue damage (2-2.5x) than non-AHT devices. These representative slides demonstrate the extent of tissue damage (bound by tissue "halo") at the point of the tip application(•).



ISOCOOL 5.5mm²



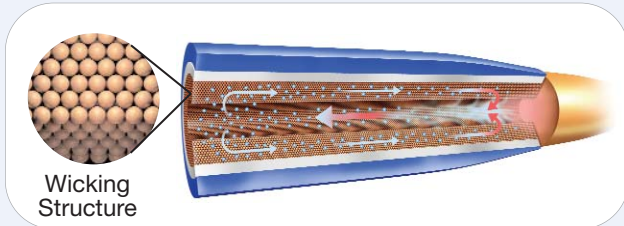
ROSE GOLD 14.09mm²



SILVERGLIDE 10.68mm²

THE SCIENCE BEHIND NON-STICK FORCEPS

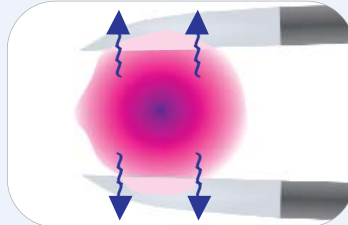
Active Heat Transfer Technology



How It Works

Fluid inside the vacuum tube vaporizes as it transfers heat from the tips of the forceps. Heated vapors move up the tube, through the wicking structure. Vapors condense, releasing heat away from the surgical site. Condensation returns the fluid to begin the cycle again.

Forceps Without AHT



How It Works

Heat passively dissipates around the tips. Without AHT technology, temperature at the tips of the forceps can exceed the temperature necessary for tissue coagulation.

THE ADVANTAGES OF ACTIVE HEAT TRANSFER TECHNOLOGY **THE ISOCOOL WITH AHT CAN:***

- 1 Reduce inadvertent collateral tissue damage
- 2 Enhance ability to coagulate delicate tissue in fine detail
- 3 Control temperature continuously to minimize sticking and charring



*Data on file.

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For more information, contact your Codman Sales Representative
For product information, call (800) 225-0400
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INDICATIONS

The ISOCOOL Bipolar Forceps (handles and tips) when used as part of a system including bipolar electrosurgical generator are indicated for cauterizing, coagulating, grasping and manipulating tissue during general surgery, neurosurgery, ENT surgery, OB/GYN surgery, and maxillofacial/plastic surgery procedures. Indications for use in OB/GYN Surgery exclude contraceptive coagulation of fallopian tube tissue.