

NeuroTherm™

SERIAL NO.

10117

NEUROTHERM RF THERMOCOUPLE ELECTRODE

- Catalogue No M/405-TCL Batch.....
- Catalogue No M/406-TCL Batch.....
- Catalogue No M/407-TCL Batch.....

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0120

Instructions for use

Connections

This thermocouple electrode is designed for use with a NeuroTherm RF Lesion Generator and connects directly to the Lesion Generator without an intermediate lead.

After connection and before use ensure that there is a correct body temperature reading on the NeuroTherm lesion generator.

Use with disposable cannula

Your thermocouple electrode has been designed to be used with NeuroTherm disposable cannula. It does not have an adjustable collet as the tolerances of manufacture make this unnecessary. Ensure the correct length of disposable cannula is used.

Other disposable cannula can be used but the thermocouple tip position must be checked.

Thermocouple tip position

The tip of the thermocouple when in the cannula should be within the exposed tip. This should always be checked with each cannula prior to use. If the tip cannot be seen directly by eye then carefully introduce the cannula's stylet into the bevelled end of the cannula until it contacts the thermocouple and note the distance when the stylet is withdrawn.

The thermocouple electrode and protective tubing are manufactured by:
Morgan Automation Limited, Rake Heath House, London Road,
Hillbrow, Liss, Hampshire, GU33 7NT

The sterilisation case (if supplied) is manufactured by:
Warwick Sasco Limited, 17-18 Longfield Road,
Sydenham Industrial Estate, Leamington Spa, CV31 1XB

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429 Brighton Road Croydon Surrey CR2 6EU U.K.
Tel: +44 (0)20 8660 4374 Fax: +44 (0)20 8660 9417
E-mail: admin@rdgmedical.com www.rdgmedical.com



Cleaning

- 1) Wipe or rinse the thermocouple electrode, protective tube and case with lukewarm tap water prior to cleaning.
- 2) Submerge the thermocouple electrode, protective tube and case in lukewarm, blood-dissolving enzymatic solution.
Do not immerse the connector end of the thermocouple electrode as damage to the product may result.
The use of mechanical cleaners may reduce the useful life of the product.
- 3) Remove gross matter, i.e. blood, mucous, tissue from the product with a soft non-linting cloth.
- 4) Using lukewarm tap water, rinse the product until the enzymatic solution is removed. If inadvertently immersed allow the water to drain out of the connector by inverting it for a minimum of 30 minutes, prior to sterilization.

Use of Mechanical Cleaners

Thermal washer disinfectors may be used on a standard cycle of between 84° and 90°C for 1 minute.

Do not use ultrasonic cleaners. Damage to the product may result.

Caution

Before sterilization, inspect the thermocouple electrode, cable and connector for any signs of damage or corrosion.

Do not use if any damage or corrosion is observed.

Recommended sterilization procedures

If in doubt, the sterilization manufacturer should be consulted for recommendation of loading instructions and drying times.

(A) Ethylene Oxide

Ensure the protective tube is in place over the thermocouple electrode. Loosely coil the thermocouple electrode cable before inserting into the ETO pouch, as tight bunching or wrapping of the cable may decrease the life of the product.

Temperature -	54°C (130°F)
Concentration-	ETO: 600 Mg/Lt.
Humidity -	40% to 60% RH
Exposure time-	105 minutes
Aeration time -	12 hours at 54°C (130°F)

(B) Steam

Important – using an autoclave supply water with a high mineral content may reduce the effective life of the product.

Wrapped (porous load)

Pre vacuum,	134° - 137°C (274° - 279°F) for 3 minutes.
Gravity,	132° - 136°C (270° - 277°F) for 10 minutes.
Gravity,	121°C (230°F) for 20 minutes.

Ensure the protective tube is in place over the thermocouple electrode and that the cable does not contact the metal housing of the autoclave or other metal instruments during the autoclave cycle, as this may reduce the effective life of the product.

Unwrapped (flash sterilization)

The method of sterilization is generally gravity displacement, which is completed in the operating room.

Ensure the protective tube is in place over the thermocouple electrode and that the cable does not contact the metal housing of the autoclave or other metal instruments during the autoclave cycle, as this may reduce the effective life of the product.

- 1) Place the sterilization indicator in the sterilization basket with the thermocouple electrode before placing in the sterilizer chamber.
- 2) Select the appropriate cycle, depending on the type of sterilization used:
Pre vacuum - 132° - 137°C (270° 0 279°F) for 4 minutes.
Gravity displacement - 132° - 137°C (270° - 279° F) for 3 minutes.

Usage

If the thermocouple is handled with care it should be usable for between 50 and 100 procedures.

After sterilisation and before each use, plug the thermocouple into the lesion generator and ensure the readings of temperature and impedance are within the normal range.

Warranty

This RF thermocouple electrode is warranted for one month from the date of supply.