



USE AND HANDLING INSTRUCTIONS

Greenwald Catalog Items:

RET Series Cystoscopic Electrodes
UET Series Ureteroscopic Electrodes

1. Cleanse product in a suitable surgical cleanser with tip fully extended. Charred tissue on the instrument tip can be removed by using an abrasive pad or stiff brush and scouring powder.
2. Rinse thoroughly. Replace clear plastic tube over tip and shaft (make sure tip is fully extended).
3. Maximum product life is achieved by using ethylene oxide gas (EtO) sterilization. Follow sterilizer manufacturer's recommended parameters, however, do not exceed temperatures of 180° F.

(DO NOT STEAM AUTOCLAVE)

4. Cold soaking in sterilizing solutions is an acceptable alternate method. Because some sterilizing solutions contain penetrants, double rinsing with agitation is recommended.
5. Regardless of sterilizing method employed, product should be thoroughly dried prior to use. Particular attention should be paid to the power cord connector.
6. Always store product with distal electrode tip fully extended and clear plastic tube placed over tip and shaft.
7. Always retract electrode tip when inserting and removing electrode from the scope. **WARNING** – these electrodes are designed for use in rigid scopes only.
8. The recommended activation cord for these products is Greenwald Catalog No. M25 (See Greenwald Catalog for High Frequency Electrosurgical Cords). Attach cord to electrode by pushing the small tapered cord pin into the hole of the metal connector inside the proximal end of the white handle assembly.
9. **TIP MUST BE FULLY SUBMERSED IN IRRIGATING FLUID WHEN ELECTRICAL CURRENT IS EMPLOYED.** Do not exceed electrosurgical generator settings of 80 watts (coagulation). Product Catalog No's. UET107B, RET107B, RET107F, and RET107G only may also be operated in the cutting mode – do not exceed generator settings of 200 watts.

Caution: Federal (U.S.A.) Law restricts this device to sale/use by or on the order of a physician.

Greenwald Surgical Company, Inc. (A Division of Grace Manufacturing, Inc.)

Manufacturers of Urological and Electrosurgical Instruments and Accessories

614 SR 247 • Russellville, Arkansas 72802 • (479) 968-5455

Toll Free: 1-866-968-6665



**RECOMMENDED STERILIZATION PARAMETERS for
EO Sterilization in a Health Care Facility**

Unless otherwise stated, our products are **not sterile** and must be thoroughly cleaned and sterilized prior to each use.

Parameters for EO Sterilization Cycles					
Process	Concentration	Exposure time at 37°C (99°F)	Exposure time at 38°C (100°F)	Exposure time at 55°C (130°F)	Relative Humidity
100% EO	880 mg/L	4 hrs	-	1 hr	50% to 80%
	740 mg/L	-	4 hrs, 30 min	1 hr	80%
	735 mg/L	4 hrs	-	1 hr	50% to 80%
	725 mg/L	3 hrs	-	1 hr	30% to 80%
EO-HCFC	600mg/L	-	6 hrs	2 hrs, 10 min	30% to 70%
	570 to 620 mg/L	-	5 hrs	2 hrs	≥30%
EO-carbon dioxide	360 to 390 mg/L	-	7 hrs, 30 min	3 hrs	≥30%
	450 mg/L	-	7 hrs, 30 min	3 hrs	30% to 80%

Always make sure the product is in good condition and perfect working order before reusing it.

Sterilization equipment manufacturer’s recommendations must be followed. Health care facility protocol should be adhered to.

Since Greenwald Surgical Co., Inc. (a division of Grace Manufacturing, Inc.) is not familiar with individual hospital procedures, cleaning methods, bio-burden levels, and other conditions, Grace Manufacturing, Inc. assumes no responsibility for sterilization of product even if the general above guidelines are followed.

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**RECOMMENDED STERILIZATION PARAMETERS for
Liquid Chemical Steam Sterilization in a Health Care Facility**

Unless otherwise stated, our products are **not sterile** and must be thoroughly cleaned and sterilized prior to each use.

Do not exceed a temperature of 138°C (280°F).

Parameters for Liquid Chemical Sterilization Cycles			
Formulation	Exposure time at 20°C (68°F)	Exposure time at 25°C (77°F)	Exposure time at 50°C to 55.5°C (122°F to 132°F)
2% to 3.5% glutaraldehyde	-	10 hours	-
7.5% hydrogen peroxide	6 hours	-	-
0.2% peracetic acid	-	-	12 minutes
It cannot be assumed that all 2% to 3.5% glutaraldehyde formulations are sterilants. The efficacy of glutaraldehyde sterilants depends on the active ingredients, the inactive ingredients, and the pH. Check the product label to confirm the parameters.			

Always make sure the product is completely dry before reusing it.

Always make sure the product is in good condition and perfect working order before reusing it.

Liquid chemical sterilization manufacturer’s recommendations must be followed. Health care facility protocol should be adhered to.

Since Greenwald Surgical Co., Inc. (a division of Grace Manufacturing, Inc.) is not familiar with individual hospital procedures, cleaning methods, bio-burden levels, and other conditions, Grace Manufacturing, Inc. assumes no responsibility for sterilization of product even if the general above guidelines are followed.

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