



## CLEANING AND STERILIZING INSTRUCTIONS

Greenwald Catalog Items:

BT83 – Hurd Turbinate Electrode

1. Remove protective sleeve from needle tip.
2. Cleanse instrument meticulously using a surgical cleanser and a soft scrub brush. Particular care should be taken to avoid bending or otherwise damaging the sharp needle tips.
3. Rinse thoroughly.
4. Sterilization by ethylene oxide (EtO) gas is preferred. If EtO is not available, sterilize by steam autoclaving (do not flash).
5. Instrument should be allowed to dry thoroughly prior to use.

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

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**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  
Gravity-Displacement 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).

<b>Parameters for Gravity-Displacement Steam Sterilization Cycles</b>			
<b>Item</b>	<b>Exposure time at 121°C (250°F)</b>	<b>Exposure time at 132°C (270°F)</b>	<b>Drying Time</b>
<b>Wrapped Instruments</b>	<b>30 minutes</b>	<b>15 minutes</b>	<b>15 to 30 minutes</b>
<b>Unwrapped nonporous items</b>	-	<b>3 minutes</b>	<b>0 to 1 minute</b>
<b>Unwrapped nonporous items in mixed load</b>	-	<b>10 minutes</b>	<b>0 to 1 minute</b>

It is important that the longest drying cycle possible is employed to prevent build up of moisture inside the instrument. If the cycle of your autoclave allows a 30 minute drying time, we recommend using it.

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.

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**RECOMMENDED STERILIZATION PARAMETERS for  
Dynamic Air Removal (Prevacuum) 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).

<b>Parameters for Dynamic Air Removal Steam Sterilization Cycles</b>			
<b>Item</b>	<b>Exposure time at 132°C (270°F)</b>	<b>Exposure time at 135°C (275°F)</b>	<b>Drying Time</b>
<b>Wrapped Instruments</b>	<b>4 minutes</b>	<b>-</b>	<b>20 to 30 minutes</b>
<b>Unwrapped nonporous items</b>	<b>3 minutes</b>	<b>3 minutes</b>	<b>N/A</b>
<b>Unwrapped nonporous items in mixed load</b>	<b>4 minutes</b>	<b>3 minutes</b>	<b>N/A</b>

It is important that the longest drying cycle possible is employed to prevent build up of moisture inside the instrument. If the cycle of your autoclave allows a 30-minute drying time, we recommend using it.

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.

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