



The logo for Greenwald, consisting of the word 'GREENWALD' in white capital letters on a green, slightly curved rectangular background.

CLEANING AND STERILIZING INSTRUCTIONS

Greenwald Catalog Items:

U51 Adaptor

Initial Use:

1. Cleanse product in a suitable surgical cleanser using a soft brush.
2. Rinse thoroughly.
3. Sterilize by ethylene oxide (EtO) gas, steam autoclaving (do not exceed 270°F x 15 minutes, or 250°F x 30 minutes), or cold soaking in sterilizing solutions.

Reuse:

- A. Cleanse and rinse as described in step number 1 and 2 above.
- B. Carefully examine insulation for cracks, holes, voids, charred areas, nicks, dents, or any other visible defect, including deterioration.
- C. Carefully examine the metal shaft for any deformity, including bending.
- D. Any adaptor that exhibits any defect as described in B or C above should be removed from service.
- E. Repeat step number 3 above.

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
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).

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

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.

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
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).

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

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.

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.

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