



Instructions for Use/Intended Use

Healthmark ProTech trays are intended for the protection, organization, and delivery to the surgical field of surgical instruments and/or medical devices. Trays are **not** designed to maintain sterility by themselves. They are designed to facilitate the sterilization process when used in **conjunction** with sterilization packaging. Healthmark's polypropylene trays have been found to be extremely effective when used in conjunction with other sterilization modalities such as STEAM, STERRAD, PLAZMA, ETO, and GAMMA processes.

Recommendations for Care, Cleaning, and Sterilization of Healthmark ProTech Systems

Both physical and chemical (detergent) processes may be necessary to clean soiled items. Chemical (detergent) cleaners alone cannot remove all soil and debris; therefore, a careful manual cleaning of each item with a soft sponge or cloth is essential for maximum decontamination. For difficult access areas, a clean soft bristled brush is recommended. Once the items have been cleaned, they should be thoroughly rinsed with clean water to remove any detergent or chemical residue before sterilization. **Healthmark** recommends the use of a mild enzymatic detergent with a near neutral pH. Do not use solvents, abrasive cleaners, metal brushes or abrasive pads. Trays may be placed in mechanical cleaning equipment.

Always inspect for cleanliness or damage before use. Make sure all latches and handles are secure and in working order. Do not overload trays. Balance contents uniformly within the container and arrange to allow sterility to come in contact with all objects in the container.

Healthmark recommends that the trays be processed according to the sterilization wrap or pouches **prior** to sterilization to maintain sterility of internal components/items and for proper aseptic presentation to the surgical field.

Healthmark has verified product performance in the following cycles.

1. Steam Autoclaves

Follow the manufacturer's recommended processing instructions and ensure that these recommendations are consistent with the surgical instruments manufacturer's processing recommendations.

A. Pre-vacuum Sterilizer

Wrapped trays, and instruments, should be exposed to 132° C to 135° C (270° F to 275° F) for at least four minutes. Dry for 20 to 40 minutes.

B. Gravity Displacement Sterilizer: Wrapped trays and instruments should be exposed to 132° C to 135° C (270° F to 275° F) for at least 30 minutes, or 121° C to 123° C (250° F to 254° F) for at least 55 minutes. Dry for 20 to 50 minutes. Variables that may affect drying times include: loading density of the case/tray, instrument configuration, total contents of the sterilizer, steam quality, equipment maintenance, and others.

C. Flash Autoclave: Healthmark recommends strict adherence to both ANSI/AAMI and AORN guidelines concerning flash autoclaving.

Proper Handling and Loading of trays for Steam Autoclave Sterilization:

1. DO NOT load trays on sides or upside down with lid side down on shelf or cart. Load cases on cart or shelf so that the lid is always facing upward. This allows for proper drying. The trays are designed to dry in this position. Do not nest or crowd trays during autoclaving.

2. After the autoclave door is opened, all trays must be allowed to cool thoroughly. The amount of time required depends on load content. Place trays on a rack or shelf with a linen cover



until cooling is complete. The potential for condensation may increase if the case is not allowed to cool properly.

3. If condensation is observed, check to insure that recommendations 1 and 2 were followed. Also, verify that the steam that is being used for sterilization processing has a quality of more than 97%. Confirm that the sterilizers have been inspected for routine maintenance in accordance with the manufacturer’s recommendations.

Healthmark trays are manufactured of a lightweight durable plastic. By nature this material is non-rigid, and some distortion due to high heat (typically in excess of 275° F) may occur. Plastic also has memory. If warping (distortion) following sterilization occurs, try the following: Rerun the trays lying flat, with an even weight on all parts. When it returns to usable shape, follow the above procedures.

Healthmark recommends the review of AAMI’s “Good Hospital Practice: Steam Sterilization and Sterility Assurance” publication #ANSI/AAMI St-79-2009. Please feel free to call Healthmark at 800-521-6224 with any questions.

1. Sterrad

Follow the manufacturer’s recommended processing instructions and ensure that these recommendations are consistent with the surgical instruments manufacturer’s processing recommendations. The large number of surface perforations in tray provides the fluid dynamics required for successful sterilization utilizing the Sterrad process. Failure can occur if:

- The instruments or contents of the tray are “wet”. It is important to dry all instruments and contents of the tray before processing.

Sterrad® is a registered trademark of Advanced Sterilization Products a Division of Johnson & Johnson Medical, Inc.

2. ETO

Follow your manufacturer’s recommended processing instructions and ensure that these recommendations are consistent with the surgical instruments manufacturer’s processing recommendations. The large number of surface perforations in the tray provides the fluid dynamics required for successful sterilization utilizing the ETO process. Failure can occur if:

- The instruments or contents of the tray are “wet”. It is important to dry all instruments and contents of the cassette before processing.

Tray Size	Maximum Total Weight
Small (~4x8x1 inch)	1 lb. (0.34 kg)
Tray (~8 x 17 x 1 in.)	2 lb. (0.68 kg)
½ Size Case (~7 x 7 x 4 in.)	8 lb. (3.6 kg)
¾ Size Case (~7 x 12 x 4 in.)	13 lb. (5.9 kg)
Full Size Case (~9 x 19 x 4 in.)	22 lb. (9 kg)
Full Size Deep Case (~9 x 19 x 6 in.)	27 lb. (11.3 kg)



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These Instructions for Use/Intended Use are for only the products listed below, if any questions or concerns contact Healthmark Industries.

Follow Products:

INSTRU-TRAYS

4116-H
4106H
41013H
41116H
41317H
41520H

HINGED-TOP MICRO TRAYS

30732-H
30842-H
31042-H
31055-H
31462-H
31772-H

PLASTIC STERILIZING BASKETES

DT-1218
DT-2136
1511-4
1511-7

ARTHOSCOPE TRAYS

31042-22

ECONOMY SCOPE TRAY

31772-22

CAMERA TRAY

31462-22

LAPAROSCOPIC PROCEDURE TRAY

DDL-4113

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