

MRI Fiber Optic Laryngoscope Blades and Handles Sterilization Guidelines (Penlon)

MRI Fiber Optic Blades and Handles

Cleaning and Disinfection (Handle)

Before cleaning and disinfecting, the battery should be removed from the handle. To remove the battery, unscrew the end-cap at the base of the handle and remove the battery. Be sure to replace the end-cap prior to disinfection.

Once the battery has been removed from the handle, the handle can be immersed in a high level disinfectant. (glutaraldehyde 2.4% solution) for a minimum of 45 minutes at 25°C to destroy all pathogenic microorganisms. After removing the handle from the solution, rinse thoroughly with sterile water. The battery can then be replaced in the handle once the handle is dry.

Warning: Do not sterilize handles with chemicals, steam ETO or hot air.

Cleaning, Disinfecting and Sterilizing (Blades)

Cleaning - Clean immediately after use to prevent the drying-on residues. Immerse blade in a presoak/cleaner enzymatic solution, such as Klenzyme TM for two minutes. Remove from enzymatic solution, rinse with clean water then immerse blade in a detergent, such as Manu-klanz TM. The removal of the light guide requires the disassembly of the blade. This is not recommended, however if the user finds it necessary for adequate cleaning, the following steps should be followed. Remove light guide, then brush thoroughly using a soft-bristle brush while immersed, rinse under cold running tap water. Dry blade with a soft cloth and reassemble light guide.

Disinfecting - Immerse blade in an activated 2.4% glutaraldehyde solution without surfactants (i.e. 14 days). Immerse for 45 minutes at room temperature. Rinse all parts two times in sterile distilled water. Dry all parts with a clean, soft cloth.

Sterilizing - After cleaning, the blade can be sterilized using gravity displacement (121°C for 30 minutes) or pre-vacuum steam (132°C for 4 minutes).

Test Procedure

Laryngoscope blades and handles should always be tested after cleaning/disinfection and prior to use.

To check, connect the laryngoscope blade to the handle and pull open to the ON position. If the unit fails to light or flickers, check the lamp or the battery. Be sure an adequate supply of spare lamps and battery parts are readily available.

It is recommended that, prior to use, the MR Fiber Optic Intubating Laryngoscope be brought into the MRI environment by the individual that will be handling the device. This will ensure that the user is accustomed to the minor attraction that exists between the device and static magnetic field.