



Excellent Instruments
For Professional Hands

CILITA Ophthalmic Instruments.

Directions for Use

CILITA Instrument Care Booklet

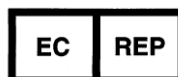
“Quality is not an act, it is a habit”
Aristotle

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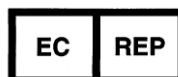
1. Groups of Cilita instruments. Directions for Use.

Blade Holder

Instrument type/ name:	Blade Holder
General Description:	Two semi-spherical parts box-jointed in the locked position present a round handle with cone-type ending
Product Features:	Cone-type ending has a finely-finished surface in the opening
Sterility:	Re-usable, unsterile
Intended function:	1) To hold firmly a surgical blade
Types of Surgical Procedure:	Cataract extraction Corneal transplantation Oculoplastic Surgical Procedures
Maximum number of uses:	750
Preparation for Use:	1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Clean the instrument thoroughly and rinse it distilled or demineralized water 3) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	none



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Calipers

Instrument type/ name:	Caliper
General Description:	A titanium made instrument presenting a two-armed divider which with the help of a nut-and-screw mechanism is connected to a doubles sided scale.
Product Features:	The scale is marked 0-20 degrees
Sterility:	Re-usable, unsterile
Intended function:	1) to measure the distance between two opposing sides of an object
Types of Surgical Procedure:	Cataract extraction Corneal transplantation Oculoplastic Surgical Procedures Refractive Surgery
Maximum number of uses:	750
Preparation for Use:	<ol style="list-style-type: none"> 1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Do the screw test of the mechanism ensuring smooth movement of it 3) Clean the instrument thoroughly and rinse it distilled or demineralized water 4) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	none



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Cannulas

Instrument type/ name:	Cannula
General Description:	An adapter made of stainless steel or plastic with tubing
Product Features:	Numerous types of size and shape are meant to ensure best functional application
Sterility:	Re-usable, unsterile
Intended function:	2) to transfer liquids or gases from one vessel (eg., syringe) to a certain point of the surgical field without exposure to air 3) To cannulate or drain; 4) to separate of tissues alongside with liquid supply
Types of Surgical Procedure:	Cataract extraction Phacoemulsification Corneal transplantation Oculoplastic Surgical Procedures Refractive Surgery Vitreo-Retinal Surgery
Maximum number of uses:	750
Preparation for Use:	5) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 6) Clean the instrument thoroughly and rinse it distilled or demineralized water 7) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	Air Injection Cannula Anterior Chamber Maintainer Hydrodissector- cannula Cortex Extractor Cannula Aspiration Cannula Irrigation Cannula Irrigation/ Aspiration Handpieces



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Ophthalmic Knives

Instrument type/ name:	Ophthalmic Knife
General Description:	A hollow handle with a diamond or sapphire cutting blade. The telescoping mechanism ensures operating (the cutting blade is outside the handle) and non-operating (the cutting blade is inside the handle) positions
Product Features:	Cutting blades are varied in shape and size
Sterility:	Re-usable, unsterile
Intended function:	1) To cut 2) To incise
Types of Surgical Procedure:	Cataract extraction Phacoemulsification Glaucoma Surgery Corneal transplantation Oculoplastic Surgical Procedures Refractive Surgery Vitreo-Retinal Surgery
Maximum number of uses:	Diamond Ophthalmic Knife – 2000 times Sapphire Ophthalmic Knife – 300 times
Preparation for Use:	1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Test the telescoping mechanism of the handle. It should run smoothly. 3) Clean the instrument thoroughly and rinse it distilled or demineralized water 4) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	Straight Universal Knife Crescent Tunnel Knife Trapezoid Self-diving Knife Clear Cornea Phaco Knife



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Fixation Rings

Instrument type/ name:	Fixation Ring
General Description:	A 360 degree rotating ring/ semi-ring with teeth firmly fixed to a fork-shaped handle
Product Features:	The number of teeth as well as their shape may vary depending on the model
Sterility:	Re-usable, unsterile
Intended function:	1) For stabilization; for fixation of the eye globe 2) For compulsory rotation of the eye globe
Types of Surgical Procedure:	Cataract extraction Phacoemulsification Glaucoma Surgery Corneal transplantation Oculoplastic Surgical Procedures Refractive Surgery Vitreo-Retinal Surgery
Maximum number of uses:	750
Preparation for Use:	1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Test rotation of the ring. It should go smoothly. 3) Clean the instrument thoroughly and rinse it distilled or demineralized water 4) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	none



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Forceps

Instrument type/ name:	Forceps
General Description:	A handheld instrument presenting a pair of closing jaws
Product Features:	Two types are distinguished: non-locking (ensure easily variable pressure) and locking (lock the grasping surfaces in a closed position to facilitate manipulation or to independently clamp, grasp or hold an object) Closing jaws may vary in size and shape (flat platforms, teeth, serrations etc.)
Sterility:	Re-usable, unsterile
Intended function:	1) To clamp, grasp, hold an object (biological tissue/ suture etc.)
Types of Surgical Procedure:	Cataract extraction Phacoemulsification Glaucoma Surgery Corneal transplantation Oculoplastic Surgical Procedures Refractive Surgery Vitreo-Retinal Surgery
Maximum number of uses:	750
Preparation for Use:	<ol style="list-style-type: none"> 1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Do clamp tests by pressing the jaws together on appropriate surface. Teeth must fit together closely. Jaws must align correctly. Ratches must engage crisply, yet smoothly. 3) Clean the instrument thoroughly and rinse it distilled or demineralized water 4) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	Capsulorhexis Forceps Corneal Forceps Cilia Forceps Mosquito Forceps Conjunctiva Forceps Anterior Chamber Forceps Muscle Forceps Suturing Forceps



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Excellent Instruments
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	Tying Forceps Jewelers Forceps Dressing Forceps Fixation Forceps IOL Forceps Chalazion Forceps
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Hooks

Instrument type/ name:	Hook
General Description:	Hook-shaped working part firmly fixed to the handle
Product Features:	The working part may vary in size and shape
Sterility:	Re-usable, unsterile
Intended function:	<ol style="list-style-type: none"> 1) To manipulate an object (biological tissue/ IOL / foreign body etc.) 2) To separate biological tissues
Types of Surgical Procedure:	Cataract extraction Phacoemulsification Glaucoma Surgery Corneal transplantation Oculoplastic Surgical Procedures Refractive Surgery Vitreo-Retinal Surgery
Maximum number of uses:	350
Preparation for Use:	<ol style="list-style-type: none"> 1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Clean the instrument thoroughly and rinse it distilled or demineralized water 3) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	Iris Hook Lens Hook Muscle Hook Nucleus Manipulator



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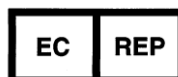
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Markers

Instrument type/ name:	Marker
General Description:	A scaled at certain degrees ring is fixed to a round handle
Product Features:	The scaling is represented by marking lines positioned at different angles on the ring
Sterility:	Re-usable, unsterile
Intended function:	<ol style="list-style-type: none"> 1) to mark incision angles on the cornea 2) to mark lens placement angles 3) to mark cornea flap
Types of Surgical Procedure:	Cataract extraction Corneal transplantation Oculoplastic Surgical Procedures Refractive Surgery
Maximum number of uses:	750
Preparation for Use:	<ol style="list-style-type: none"> 1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Do rotating tests if it is constructively supposed. 3) Clean the instrument thoroughly and rinse it distilled or demineralized water 4) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	none



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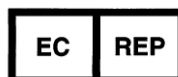
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Needleholders

Instrument type/ name:	Needleholder
General Description:	A pair of closing TC-covered jaws forced by double leaf spring
Product Features:	The jaws may vary in size
Sterility:	Re-usable, unsterile
Intended function:	4) to grip and hold surgical needles during stitching
Types of Surgical Procedure:	Cataract extraction Corneal transplantation Oculoplastic Surgical Procedures
Maximum number of uses:	750
Preparation for Use:	<ol style="list-style-type: none"> 1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Do clamp tests by pressing the jaws together. The jaws must close together so that little or no light shines through the front 2/3 of the closed jaws. Must hold suture material. 3) Clean the instrument thoroughly and rinse it distilled or demineralized water 4) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	none



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Phacoemulsification Instruments

Instrument type/ name:	Phacoemulsification Instrument
General Description:	Differently shaped working part firmly fixed to the handle
Product Features:	Blunt or sharp working part
Sterility:	Re-usable, unsterile
Intended function:	1) Lens fragmentation 2) Supportive function during lens extraction
Types of Surgical Procedure:	Cataract extraction Phacoemulsification
Maximum number of uses:	450
Preparation for Use:	1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Clean the instrument thoroughly and rinse it distilled or demineralized water 3) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	Phaco-chopper Prechopper Nucleus Manipulator



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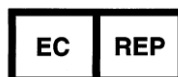
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Probes

Instrument type/ name:	Probe
General Description:	Needle-shaped instrument with obligatory blunt tip
Product Features:	Probes may vary in diameter and length
Sterility:	Re-usable, unsterile
Intended function:	<ol style="list-style-type: none"> 1) To ensure atraumatic clearing of lachrymal canals 2) To diagnose the lachrymal canals
Types of Surgical Procedure:	Lachrymal Passages Surgical Treatment
Maximum number of uses:	750
Preparation for Use:	<ol style="list-style-type: none"> 1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Clean the instrument thoroughly and rinse it distilled or demineralized water 3) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	none



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Retractors

Instrument type/ name:	Retractor
General Description:	A handheld instrument possessing a curved, hooked, or angled blade fitted with a comfortable handle
Product Features:	Retractors may vary in size and shape
Sterility:	Re-usable, unsterile
Intended function:	<ol style="list-style-type: none"> 1) To separate actively the edges of a surgical incision /wound etc. 2) To hold back lids
Types of Surgical Procedure:	Examination of the eye globe Oculoplastic Surgical Procedures
Maximum number of uses:	750
Preparation for Use:	<ol style="list-style-type: none"> 1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Check all edges for non-functional sharpness 3) Clean the instrument thoroughly and rinse it distilled or demineralized water 4) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	Lid Retractor Iris Retractor Lachrymal Sac Retractor



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Scissors

Instrument type/ name:	Scissors
General Description:	a pair of blades pivoted so that the sharpened edges slide against each other when the handles (bows) opposite to the pivot are closed
Product Features:	Scissors may vary in the blades' design and size and retaining system design (double leaf spring or ring-handle)
Sterility:	Re-usable, unsterile
Intended function:	1) To cut biological tissues, suture and other materials
Types of Surgical Procedure:	Cataract extraction Corneal transplantation Oculoplastic Surgical Procedures
Maximum number of uses:	450
Preparation for Use:	<ol style="list-style-type: none"> 1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Perform cutting test on appropriate material depending on the functional goal. Scissors must not bind when cutting appropriate layers. The blades must run smoothly without much hesitation in the closing process. Check for burrs especially at the tip of the cutting edge. 3) Clean the instrument thoroughly and rinse it distilled or demineralized water 4) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	Corneal Scissors Capsulotomy Scissors Iris Scissors IOL- removing Scissors Universal Ring-handle Scissors



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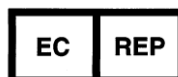
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Spatulas

Instrument type/ name:	Spatula
General Description:	Flat working part firmly fixed to the handle
Product Features:	The working part may vary in size and shape
Sterility:	Re-usable, unsterile
Intended function:	1) To support, fix, retain, extract
Types of Surgical Procedure:	Cataract extraction Phacoemulsification Glaucoma Surgery Corneal transplantation Oculoplastic Surgical Procedures Refractive Surgery
Maximum number of uses:	350
Preparation for Use:	1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Clean the instrument thoroughly and rinse it distilled or demineralized water 3) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	Membrane Spatulas Iris Spatulas Cyclodialysis Spatulas Various Spatulas



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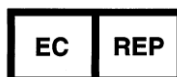
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Speculum

Instrument type/ name:	Speculum
General Description:	A mechanism consisting of two opposite blades the gap between which can either be regulated manually or be predetermined by the design
Product Features:	Speculums may vary in size and design
Sterility:	Re-usable, unsterile
Intended function:	1) To move apart and fixate lids in order to give a surgeon access to the operation field (eye globe)
Types of Surgical Procedure:	Cataract extraction Phacoemulsification Glaucoma Surgery Corneal transplantation Oculoplastic Surgical Procedures Refractive Surgery Vitreoretinal Surgery
Maximum number of uses:	750
Preparation for Use:	<ol style="list-style-type: none"> 1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Test the regulating mechanism: opening of the blades must be performed smoothly. Check all edges for non-functional sharpness or burrs. 3) Clean the instrument thoroughly and rinse it distilled or demineralized water 4) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	Temporal Speculum Nasal Speculum Adjustable Speculum Wire Speculum



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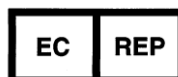
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Various Instruments

Instrument type/ name:	Spoon / Curette / Loop
General Description:	Spoon-shaped working part firmly fixed to a handle
Product Features:	Variety of sizes and design
Sterility:	Re-usable, unsterile
Intended function:	1) To scrap biological tissue; to dilate
Types of Surgical Procedure:	Cataract extraction Corneal transplantation Oculoplastic Surgical Procedures Refractive Surgery
Maximum number of uses:	750
Preparation for Use:	<ol style="list-style-type: none"> 1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Check all edges for non-functional sharpness or burrs. 3) Clean the instrument thoroughly and rinse it distilled or demineralized water 4) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	none



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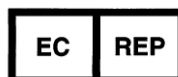
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Vitreoretinal Instruments

Instrument type/ name:	Vitreoretinal Forceps / Vitreoretinal Scissors
General Description:	A Micro working part, functionally forceps or scissors, fixed to a long arm. Together with screw mechanism it is called “vitreoretinal tip”. Maneuvering of the working part is controlled through a finger mechanism of the handle.
Product Features:	Vitreoretinal instruments vary in size (20, 23, 25 Ga) and the design of the working part
Sterility:	Re-usable, unsterile
Intended function:	<ol style="list-style-type: none"> 1) To clamp, grasp, hold biological tissue through a micro incision 2) To cut biological tissue through a micro incision
Types of Surgical Procedure:	Vitreo-retinal Surgery
Maximum number of uses:	750
Preparation for Use:	<ol style="list-style-type: none"> 1) Remove the instrument from its container and examine it under magnification, preferably a microscope, to ensure its identity and pattern consistency as well as its physical condition. 2) Test fitting of the vitreoretinal tip to the handle. Test the finger-control mechanism to clamp the jaws of the forceps or slide of the cutting blade of the scissors. 3) Clean the instrument thoroughly and rinse it distilled or demineralized water 4) Place the instrument in a sterilizing tray. Regardless of sterilization method, follow instructions supplied by the manufacturer of the sterilizer.
Product Subtypes:	Vitreoretinal Forceps Horizontal Vitreoretinal Scissors Vertical Vitreoretinal Scissors



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2. *New instruments. Preparation for Use.*

The care of such an expensive investment as purchase of microsurgical instruments should start immediately upon their receipt. Please refer to a special section of Directions for Use of the present manual and read carefully our recommendation about Preparation for Use of each group of microsurgical instruments.

3. *Manual Cleaning.*

When handling instruments, please, be careful not to damage their delicate tips and mechanisms.

	Do not allow blood, tissue, medicine, saline or protein residue to dry on instruments. Immediately after surgery, rinse all instruments in the surgical tray with distilled or demineralized water (recommended pH 6,5-7,5 at 40-45 °C). Failure to do so may result in rust.
	Do immerse instruments in a cleaning and disinfecting solution after rinsing. Scrub gently stubborn strains with a soft toothbrush, paying special attention to joints and serrations which are prime locations for corrosion to develop.
	Do not use metal brushes, steel wool or abrasive powders – they can seriously damage the surface of instruments. Nylon brushes may be advised for that purpose.
	Rinse instruments thoroughly with distilled or demineralized water, followed by drying. Instruments may be dried using a lint-free cloth or a hot-air blower.

4. *Lubrication*

Cilita ophthalmic Instruments are made of corrosion-resistant materials which do not require lubrication.

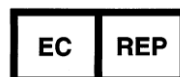
5. *Ultrasonic Cleaning*

Ultrasonic cleaning is the most effective and efficient way to clean instruments. It is recommended for all stainless steel instruments at the end of each surgical day. Please, observe the following:

- Follow instructions supplied by the manufacturer of your ultrasonic cleaner and use cleaning solutions recommended for stainless steel.
- Always use demineralized or distilled water for ultrasonic cleaning.
- Heat the water for ultrasonic cleaning up to 150°F (65°C) to maximize its cleaning effect.



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- d) Instruments should be totally submerged in the cleaning solution but should not be in contact with each other
- e) After cleaning the instruments, rinse them thoroughly with demineralized or distilled water.
- f) Dry instruments with a hot-blower or a lint-free cloth before returning them to storage.

6. *Inspection*

All microsurgical instruments should be inspected under magnification at the end of each surgical day to ensure their perfect working condition. Damaged instruments (bent or crashed tips, misaligned jaws etc.) must be removed from the set and repaired or replaced.

7. *Storage*

To avoid unnecessary handling, it is recommended that instruments should be stored in the same container in which they are sterilized. Instruments should be placed without touching each other. Always keep a soft silicone tubing to cover delicate tips when instruments are not in use.

8. *Sterilization*

Sterilizing is not cleaning!

Instruments must be thoroughly cleaned and rinsed in distilled or demineralized water before sterilization.

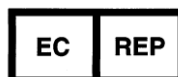
Microsurgical instruments can be sterilized effectively with any conventionally accepted method, such as:

- Steam autoclaving (please, refer to BS EN ISO 14937)
- Dry hot air (please, refer to ISO20857 : 2010 EDTN1)
- Ethylene oxide gas (please, refer to BS EN ISO 11135-1:2007)
- Chemical or cold disinfectant (please, refer to BS EN 14885:2006)

Recommended sterilization cycles are shown in the tables 1-4. Please, pay attention that the recommended cycles are suitable only for corrosion-resistant metals and alloys which Cilita's instruments are made of, and may not be suitable for other medical products requiring sterilization.



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Table 1. Steam autoclaving sterilization cycles.

Cycle details					
Steam pressure, MPa	Max.deviation, MPa	Temperature, °C	Max.deviation, °C	Sterilization exposure period, min.	Max.deviation, min
0,21	+/- 0,01	134	+/-1	5	+1
0,20	+/- 0,02	132	+/-2	20	+2
0,14	+/- 0,01	126	+/-1	10	+1

Table 2. Dry hot air sterilization cycles.

Cycle details			
Temperature, °C	Max.deviation, °C	Sterilization exposure period, min.	Max.deviation, min
200	+/-3	30	+3
180	+/-3	45	+5
160	+/-3	150	+5

Table 3. Ethylene oxide gas sterilization cycles.

Cycle details						
Gas Dose, mg/dm ³	Partial pressure, MPa	Temperature, °C	Max.deviation, °C	Relative humidity, %	Sterilization exposure period, min.	Max.deviation, min
1000	0,055	≥18	-	≥80	960	+/-5

Table 4. Chemical disinfectant sterilization cycles.

Cycle details					
Sterilizing solution*	Temperature, °C	Max.deviation, °C	Solution concentration, %	Sterilization exposure period, min.	Max.deviation, min
Lysoformin TM 3000 (Lysoform Dr.Hans Rosemann GmbH, Germany)	40	+/-1	8,0	60	+5
Cidex TM (Johnson&Johnso	21	+/-1	Dilution is not required	240	+5



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n Co, USA)					
Steranios 20% (Anios, France)	21	+/-1	2,0	360	+5

*Any other disinfectant solution of a similar type can be used for sterilization of instruments. Please, read carefully the Instructions of manufacturer.

	Regardless of which sterilization method is used, always follow instructions supplied by the manufacturer of the sterilizer.
	Always follow a strict scheme of thorough cleaning and preparation of instruments prior to sterilization.
	Always sterilize instruments in the open, unlocked position.
	Do not use hydrogen peroxide for sterilization of instruments made of Titanium alloys as it can result in darkening of the surface and decrease of corrosion-resistant qualities.

Points to Remember

1. Do not allow blood, tissue or BSS to dry on instruments.
2. Always use demineralized or distilled water to rinse instruments.
3. Metal brushes and abrasive powders are not allowed for cleaning instruments.
4. Ultrasonic cleaning is the most effective way to clean instruments.
5. Allow instruments to air-dry thoroughly or use a lint-free cloth to dry them.
6. Lubricate joints and locks after cleaning.
7. Use silicone tubes to protect delicate tips while storage.
8. Sterilizing is not cleaning.

Date of Issue: April 02, 2008

Revision Number: 3

Latest Revision Date: January 28, 2019



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