

Instructions for use

Dear Customer,

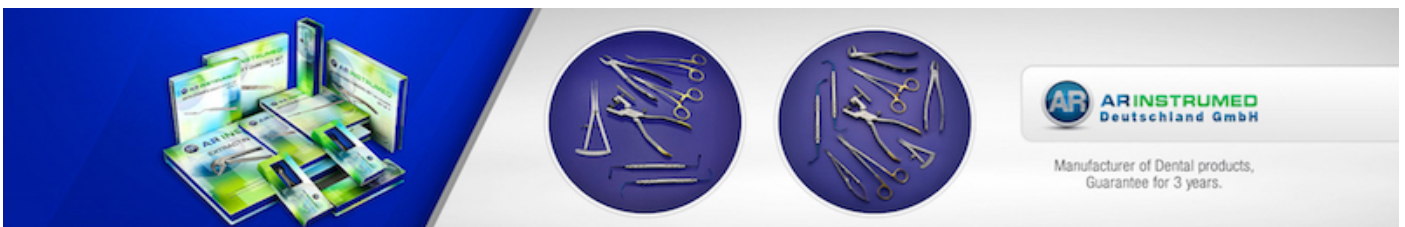
We kindly ask you to read carefully the following instructions before handling and using the instruments. Each AR INSTRUMED instruments has been realized with great care and professionalism and its use is addressed only to qualified and dental personnel.

1. First use (INITIAL USE)

The Instrument is supplied 'NON_STERILED': it must properly washed, rinsed and sterilized before to be used. Many joint instruments present oily residuals the parts, due to the manufacturing phase: please make sure to clean the instruments into the proper way.

If the use of a washing-machine is not possible, the instruments can also be washed manually; use are rigid brush with plastic bristles (no metal bristles) and make always sure the proper washing and decontamination solutions.

2. Cleaning / Disinfecting



- a. All the cleaning operations must be carried on only on areas duly equipped and organized for this kind of operation.
- b. Immediately after the use, instruments must be cleaned/disinfected from remains (e.g. Blood , tissue , cement) through the use of solutions whose effectiveness has been proved to prohibit mechanic damage of the instruments .
- c. Make sure of the right dosage of the cleaning/decontamination solutions, of the washing duration and of its temperature, following always the instructions given by the equipment manufacturer and by the cleaning solutions producer.
- d. Cleaning /disinfectant solutions containing sodium chloride (NaCl) can often cause oxidation or corrosion to the instruments compromising seriously their use.
- e. Make sure, that the solution for cleaning the instruments has not a protein-binding effect.
- f. Cleaning/disinfecting solutions must be changed daily.
- g. The best recommended method for a proper washing of the instruments is the ultrasound cleaning, especially suggested for the joint instruments (ex: pliers, scissors, needle-holder,)
- h. Do not put together in the same trays for the washing/sterilization instruments made of different metals (ex: common steel with stainless steel, aluminum, chromed steel..)
- i. Joint instruments (ex: pliers, scissors, needle-holders,..) Must be placed in an open position for the washing /disinfection.
- j. Make sure that trays/containers are not overloaded with instruments because this could compromise the washing/disinfection.
- k. Possible residuals after the first wash must be completely removed.
- l. It has been proved that the ideal temperature for the final rinsing is between 80°C and 90°C.
- m. It is highly recommended to use only demineralized water during the final rinsing. This device avoids the rise up of dark stains.
- n. To maintain the perfect efficiency of joint instruments, it is necessary to lubricate them regularly with specific product (DO NOT USE INDUSTRIAL OIL SAT ALL).

3.Sterilization

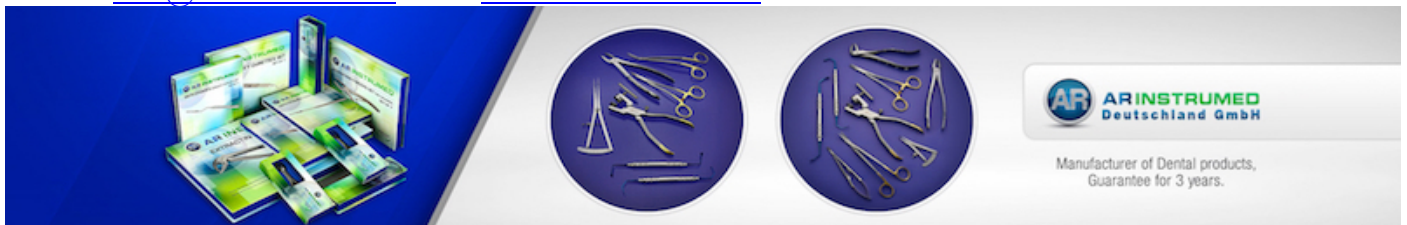
It is highly recommended to sterilize the instruments only after a proper cleaning.

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If the Instrument is not perfectly cleaned, the result of the sterilization is prejudiced. Follow carefully the instructions for use provided by the manufacturer of the sterilization equipment's.

There are different ways for sterilizing the Instruments:

3.1. Autoclave Sterilization

The main aim of the autoclave sterilization is to obtain a proper sterilization and, In the meantime, to maintain unchanged the structural and functional characteristic of the instruments and much as possible. This process must be done only and exclusively by expert personnel that must have been properly trained for this purpose. Therefore we recommend you to do that by using the guideline of DIN EN 285 and DIN EN 554.

Autoclave sterilization through saturated steam is the most used method nowadays: it is based on heat, that is necessary to sterilize , on saturated steam , that act on the thermal exchange with the instruments temperature , and on the pressure , that increase the water the water evaporation latent heat.

- For this method of sterilization, it is highly recommended to make cycles that not overcome 7 minutes, with a temperature of 134 °C and a pressure of 2,1 bar.
- - Each instrument must be secured prior to sterilization in a sterile package with welds. Fill the Autoclave with packaged materials to the extent that the water vapor can freely penetrate everywhere.
- - After the sterilization process material obtained from the process parameters and check the indicator strip. Then release the instrument or resubmitted it for processing again.
- -For the enveloped instruments it is very important to complete carefully the rinsing cycle because if some water remains into the envelope, it can cause corrosion, oxidation or generate bacterial formation to the instruments and envelope.
- - Sterile, packed up instruments must be preserved in defined areas which is dry, without dust, free from insects and without extreme Temperatures.

3.2. DRY HEAT STERILIZATION

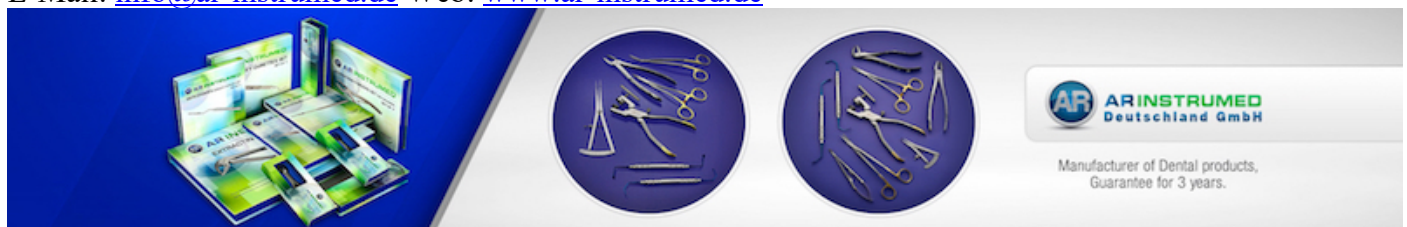
A sterilization that overcomes the 177°C (350F) weak the temper of the instrument and consequently the cut performance and the elasticity (above all the cut instruments, that can suffer a decrease of the sharpening): it

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can also occur a darkening of the instruments, brown spots that seems to oxidation. Therefore the Instruments should be sterilized with 170°C at least 60 min. Or with 160°C at least 120 min.

Aluminum and Titanium: do not put aluminum instruments and titanium instruments into thermal equipment and/or ultrasound bath . For the cleaning of these instruments use only substances that are specially suggested for aluminum and titanium.

AR INSTRUMED IS NOT RESPONSIBLE FOR THE FOLLOWING CASES:

- 1. Damages caused by a not proper use of the instrument;**
- 2. Damages caused by a wrong process of cleaning and/or sterilization of the instruments;**
- 3. Damages caused by the warehousing of the instruments in unsuitable locals;**
- 4. Damages caused by the lack of maintaining of the instruments, especially for the joint ones that need a regular lubrication in the joint parts.**

For further information or needs, we remain at your complete disposal. Kindly address your requests to the following address:

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