

smart cleaning proper hearing



Information brochure on cleaning
and care of hearing aids



Why is **cleaning** so important?

The complex electronic systems of a hearing aid are subjected to many strains and stresses when the hearing aid is worn from day to day.

Cosmetics, dirt, micro organisms, earwax (cerumen) and moisture can easily impair the hearing aid. Even the use of hairspray can lead to stickiness and close off the microphone opening or volume control.

! The hearing aid should be cleaned every day in order to maintain its performance!

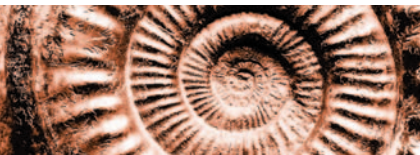
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The problem:

Earwax and moisture in particular easily enter the auditory canal or the even thinner eustachian tube and thus impair operability of the hearing aid.

Dirt and microorganisms can collect in the auditory canal and lead to inflammatory irritations.



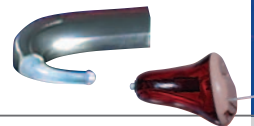
earwax and moisture

The earwax whose scientific name is cerumen is a normal element of the outer ear and is not dirt.

It even has an antibacterial effect.

The main element of earwax is supplied by the sebaceous (or oil-secreting) glands, and the rest comprises dead skin cells and mineral salts from the sweat glands.

The skin in the warm auditory canal also constantly emits moisture which is precipitated in the cooler hearing aid, these possibly damaging the sensitive electronic systems.



Mode of operation

Mode of operation of cleaning products

The water-insoluble earwax is always removed by a chemical decomposition reaction or by dissolving in a solvent.

Damp wipes containing solvent are available for quick cleaning. Residue is partially dissolved and removed mechanically. However, such solvents are volatile, that is why the wipe quickly dries out and loses its effectiveness.

Cleaning pen and cleaning foam are new products containing special solvents.

The pen allows targeted cleaning of even the ultra-fine structures of the hearing aid. The foam intensifies the action of the solvent on the surface, and unrestricted action is effective for at least 15 minutes.

In the case of cleaning tabs, cleaning is achieved by a chemical decomposition reaction (oxidation). A reactive solution is produced when dissolved in water. After cleaning, the hearing aid is rinsed with water so that the solution does not come into contact with the skin.

All new products with solvents contain bactericide additives, ensuring hygienic cleanliness.

Cleaning agents

Cleaning agents

smartclean – hygienic foam “lemon-fresh” for fast and intensive cleaning of BTE ear moulds. A selected combination of active ingredients removes even stubborn dirt, even in areas not easily accessible.

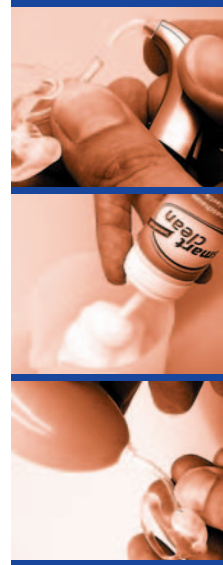
The special foam contains solvents for effective removal of deposits. Active ingredients bind the greasy earwax and clean the surface. It has a bactericidal and fungicidal action and protects against irritations and inflammations. All ingredients are easily soluble in water and can be rinsed off quickly.



for “Behind-the-Ear” aids (BTE)

Application:

1. Separate the ear mould from the BTE aid by firmly pulling on the tube.
2. Place the ear mould into the smart-box (or into another suitable vessel).
3. Cover the ear mould completely with foam.
4. Rinse off with water after 10 – 20 minutes (simply allow the foam to act for longer if there is more stubborn dirt).
5. Dry the ear mould with a cloth and blow any water residue out of the tube with the blower.



smarttabs – cleaning tabs with active oxygen for hygienic and deep cleaning of otoplasties. Visual cleaning check by colour indicator, express cleaning in only 30 minutes (violet phase). Active detergents dissolve even stubborn grease. Reactive substances are transferred to the bath, dissolved and adhering dirt is completely decomposed.

The cleaning action is assisted by the mechanical effect of the rising bubbles. The active oxygen disinfects the plastic and ensures hygienic cleanliness. The colour of the bath provides information on the current status of the cleaning process.



Application:

1. Separate the ear mould from the BTE aid by firmly pulling on the tube.
2. Fill the smartbox (or other suitable vessel) with cold water up to the marking ($\frac{3}{4}$ of the container) and add one tab (use warm water if heavily soiled).
3. Place the ear mould into the bath. **Never immerse the hearing aid in water!**
Allow to act for at least 30 minutes (the bath changes colour from violet to blue). Allow to act longer if there is more stubborn dirt.
4. Pour the bath contents out of the smartbox and rinse off the ear mould with water.
5. Dry the ear mould with a cloth and blow any water residue out of the tube.



Cleaning agents

Cleaning agents

smartpen – cleaning pen with two multi-function tips allows effortless cleaning of hearing aids without the risk of fluid entering the openings.

Simply move the pen with moist fibre over the surface. The fibre tip is able to access even ultra-fine structures. At the same time, adhering residue is mechanically removed. The dirt is partially dissolved and the surface becomes hygienically disinfected. The fibre is automatically moistened. No drips which could damage the electronics are produced.



for “In-the-Ear” aids (ITE)

(also suitable for BTE aids)

Application:

1. Remove the cap from the cleaning pen.
2. Move the wide end of the damp tip over the large areas of the hearing aid. Use the narrow tip to access even ultra-fine structures.
Ensure that the cap latches in place when replacing it on the pen!
3. Rub the hearing aid off with a lint-free cloth or damp cloth.



smartwipe – cleaning wipes

The practical cleaning wipes can be used universally for removal of light dirt from hearing aids or ear moulds.

It is also advisable to use them after intensive cleaning with foam, spray, pen or tab.

The cleaning wipes contain ingredients which clean and care for the surfaces. They act to disinfect and counteract fungi, bacteria and viruses.



- After use, ensure that you securely seal the dispenser box so that the wipes do not dry out.

Application:

1. Separate the ear mould from the ITE aid by firmly pulling on the tube.
2. Thoroughly rub the hearing aid with a cloth in order to remove light dirt.
3. Rub the surface lightly to remove any cleaning agent residue (after cleaning).



Accessories

smartbox – „clean & dry“

Practical cleaning and drying box with 2 chambers and snap catch. Wet chamber for optimum cleaning. The cleaning agents can access the ear moulds from all sides. Suspended matter is able to be deposited on the bottom. You do not have to remove a strainer and do not have to touch the aggressive cleaning medium.

The special raised areas on the drying chamber allow better air circulation. They always raise the hearing aid a little, allowing it to dry more quickly. (Incidentally, this prolongs the shelf-life of the drying capsules).



smartcare – comfort cream

Transparent cream with aloe vera to increase wearing comfort. It makes it easier to adapt to a new hearing aid or ear mould and also enhances sealing.

Aloe vera has a soothing and caring action, thus reducing the occurrence of irritations in the sensitive auditory canal. The transparent cream forms a thin film which is not resorbed by the skin. The cream does not irritate the skin or tissue, is bio-compatible and does not attack the plastic.





Auditory canal blower

A handy rubber ball-shaped blower with an air outlet opening which optimally fits the end of the tube. Pumping quickly removes moisture and water droplets.



Slim-shaped brushes

Small elongated brushes are very useful when cleaning the tube. Earwax or firmly adhering dirt can easily be removed from the opening. The special brushes are even suitable for cleaning the venting tube.



Wide-shaped brushes

with somewhat more rigid bristles are very suitable for cleaning surfaces. You should also use them to clean the battery compartment at regular intervals.

moisture moisture & drying drying

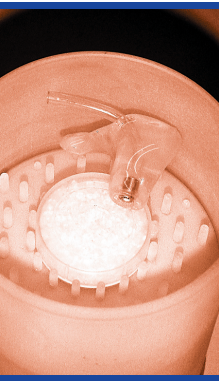
The skin in the auditory canal constantly emits moisture which is precipitated in the hearing aid and so may damage the electronic systems. Drying should be carried out at least once per week. The drying capsules contain silica gel which discolours if the water absorption capacity is exhausted.

! Always remove the battery before drying, thus avoiding fast discharge.

Drying takes several hours. It is best to do this overnight. By morning, all the moisture will have been removed and the hearing aid is ready to wear the next day.

Drying:

1. Remove the drying capsule from the package and insert it into the fixture in the drying chamber.
2. Open the battery compartment and remove the batteries.
3. Place the hearing aid overnight in the drying chamber.
4. Seal the drying chamber of the smartbox tightly with the cover.
5. The next morning, remove the hearing aid and close off the drying chamber tightly.
6. When the drying capsule becomes discoloured, it can no longer absorb any further moisture and must be replaced by a new, coloured capsule.



Material compatibility

Basically, cleaning products and plastics can be used together as you wish. Should you be uncertain about anything, the manufacturers will be pleased to provide you with further information.

Safety information

Keep product out of children's reach. Do not swallow product. If swallowed, drink lots of water and seek immediate medical attention. Immediately rinse with plenty of water any areas of the body that have come into contact with cleaning agents.



for BTE aids

smart clean

... fresh hygienic products



for ITE aids

(also suitable for BTE aids)



smarttabs

Cleaning tabs with active oxygen for deep cleaning.
Bubbly-fresh hygiene!



smartclean

Hygienic foam with triple action, for fast cleaning.
Gentle and thorough!



smartbox & accessories

eg. the useful cleaning and drying box.
It couldn't be simpler!

smartpen

Cleaning pen with multi-function tips,
no drips.
Safe to use!



smartwipe

Moist hygienic wipes
in practical dispenser box
for manual cleaning.
Universal range of application!



smartcare

Comfort cream with aloe vera, increases wearing comfort.
Soothes and cares for your hearing aid!



smart clean

Fresh hygienic products
for hearing aids & otoplasties

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