



Nano Coating

Maximum protection from sweat and humidity

All our new hearing devices are now treated with a thin coating based on modern nano coat technology. Nano coating is a polymer* layer, one thousand times thinner than a human hair, that forms a protective coating on every part of the hearing device. When humidity or sweat come into contact with it, they form beads and roll off. Nano coating covers all reachable parts and all kind of surfaces and thus protects both the outer shell of the hearing device, and all the electronics inside from any kind of liquid. It increases the lifetime of the hearing devices, and greatly improves reliability.

Simply nicer to wear

Your customers enjoy worry-free wearing in all conditions, whatever they are doing. They don't have to worry about rain, sweat or humidity. They feel more confident and more satisfied with the high quality of the hearing devices you offer. In short, nano coating adds to a trouble-free experience and an extremely satisfied customer.



Maximum protection

Nano coated for maximum protection against humidity or sweat. Fluids and water simply roll right off.



More reliable

As moisture can't stick to nano coated hearing devices it is difficult to damage them. Less moisture and water means less repairs and less hassle.



Longer life

With no moisture getting into the electronics inside there's almost no corrosion, resulting in longer life for the hearing device.



Hygienic

Nothing sticks to the hearing device. No moisture, no water. So it's easy to clean, and looks as good as new throughout its lifetime.



Extensive testing showed the difference

Our extensive tests showed the difference nano coating makes to hearing devices. We exposed the device to unnatural high levels of moisture and humidity for 5 weeks. After testing, hearing devices with nano coating showed no effects at all, while over 60% of non-coated devices either stopped working and 100% were visibly affected.

Nano coating - FAQ

Q: How long will the Nano coat stay on?

A: *The nano coat will practically stay on for good, as the nano coating material is bonded with the plastic material. Rubbing or using approved cleaning liquids will not make the nano coating come off.*

Q: What are the temperature tolerances?

A: *The nano coating works under the normal temperature that applies to a hearing instrument (0 to +65C); (Quality of coating has been tested from -25C to + 70C)*

Q: What will make the coat come off? (Alcohol, cleaning tissue...?)

A: *The performance of the coating will be a little degraded on the outside of the hearing instrument after long time use, however the effect is still there*

Q: Which parts are nano coated?

A: *The complete device is nano coated after assembly. As the coating process is controlled under vacuum, the inside components will be coated as well. Basically every nanometer of the surface that can be reached during the process is being coated.*

Q: Is it biocompatible?

A: *YES the nano coating is biocompatible (ISO 10993), and also RoHS** compliant.*

Q: Will parts get yellow over time?

A: *NO, the coating is transparent and invisible. None of our tests done so far has shown problems with devices being yellow over time. Our environmental tests has shown that the outside of the device maintains it's "new look" much longer than uncoated devices.*

Q: Is the inside of the earhook coated?

A: *Yes, the inside of the standard ear hook pre-assembled on the device is nano coated. Nano coating is both water and oil repellent, so this will prevent water/sweat/wax to enter the device/microphone.*

Q: Are thin tubes, thin tube adapter & domes nano coated?

A: *NO, further accessories such as external receivers, thin tubes and thin tube adapters are not coated.*

Q: Can I wear the devices under the shower?

A: *No, it is not recommended to wear the device under shower. And you should not drop the device into a glass with any liquids. You should not swim with it either. It's still possible that a coated device survives such a "rough" treatment, but we don't recommended to do so. A nano coated device is more water resistant than non coated devices, and will e.g. easily resist light rain showers - unlike a non coated device, the nano coated device passes the IPx2*** standard.*

Q: Does the device look and/or feel any different? (ie. is the surface more glossy, shiny, smooth...?)

A: *No, the nano coating is absolutely invisible and you will not be able to notice any difference (except from the better looks over time).*

** Restriction of Hazardous Substances Directive - Nano Coating complies with the requirements listed under this directive.

*** Passing the IPX2 standard requires a device to be protected against falling water even when tilted up to 15 degrees from normal operating position.