

The antibacterial effect

Showering can be challenging sometimes, particularly for those in need of care or with disabilities. Some people are afraid that they will fall in the shower because of balance issues and don't want to ask anyone for help, but regular showering is good for personal hygiene; promoting health and wellbeing. With *Aquatec PICO GREEN*, Invacare offers a pioneering product in environmental and ecological shower and toilet aids. The elegant and modular shower chair makes users feel safer while showering, whilst also protecting the environment due to its eco material. **PICO GREEN** consists of 10% wooden fibers which cause a natural antibacterial effect – without any silver ions harming the environment nor the human body.

► Wooden fibers that create a natural, antibacterial protection

Independent laboratory tests confirm: the wood fibers in the **PICO GREEN** have a built-in antibacterial effect. The test for *s. aureus* and *e. coli* bacteria verifies this: after a contact period of 24 hours, more than 99% of the bacteria was killed. Therefore by using the **PICO GREEN**, not only is showering safer and more comfortable but it is more hygienic.

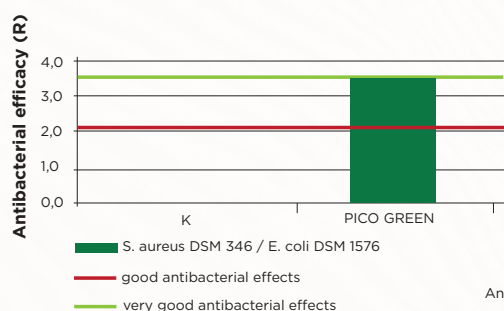
- Minimisation of the infection risk
- Helping to reduce the use of cleaning chemicals – kind to the skin, kind to the environment
- Avoiding the use of silver ions which are typically released as nano-particles which would otherwise harm the human body and nature, limit growth and reproduction.

► Laboratory test

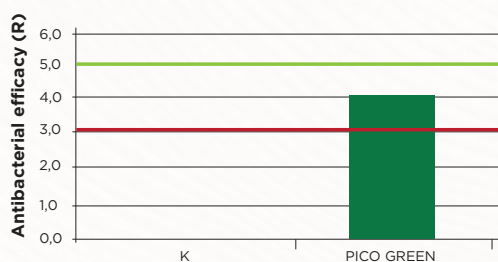
Antibacterial efficacy was tested and approved by an official German laboratory; it was tested according to ISO 22196 which is the “Measurement of antibacterial activity on plastics and other non-porous surfaces”. The test was performed on *s. aureus* and *e. coli* with a result of very good antibacterial efficacy.

Antibacterial efficacy according to ISO 22196

Results on staphylococcus aureus



Results on escherichia coli



Antibacterial efficacy on *S. aureus* DSM 346 / *E. coli* DSM 1576 after a contact time of 24h.
 K = laboratory internal and not antibacterial control.

► More environmentally friendly

10% of the **PICO GREEN** contains a new composite plastic material of wood fibers.

- Saves the environment by using sustainably grown wood from special forests in Germany
- Gives a soft and comfortable touch
- The fine wood fibers are visible to the naked eye – feeling a bit like being out in the nature

By replacing 10% of plastic (PP) with these wooden fibers, we are reducing a greenhouse gas emission of 0.6 kg per **PICO GREEN**, and saving even more by:

- Reduced petrol & oil consumption: -1.32 ltr
- Reduced CO₂ emission: -0.6 kg
- Reduced CO emission: -0.23 g
- Reduced methane emission: -1.12 g
- Reduced NOx (nitrogen oxides): -3.3 g

The **PICO GREEN** is an approved and certified medical device, made in Germany.



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