



NANO  
ULTRAFINE

titanium dioxide

### With the help of nano titanium dioxide to antibacterial towels – “Smart textile”

As already known, ultrafine i.e. nano  $\text{TiO}_2$  exhibits a very wide range of use and at the same time offers many benefits in terms of improving the quality of our everyday lives. When nano  $\text{TiO}_2$  is exposed to light, a photocatalytic reaction takes place, during which various organic pollutants decompose. This positive effect contributes to a healthier and better quality of life, improves individual's hygienic conditions, effectively prevents the formation of bacteria and viruses, inhibits the spread of infections and thus reduces the possibility of allergic reactions. Furthermore, it helps by neutralizing many unpleasant odors.

In our daily lives, we are often facing potential health risks, which we could successfully and effectively control - improve and therefore contribute to a healthier life by using photocatalytic products. Bath and kitchen towels as such, are an ideal nest for the spread of infections, the multiplication of bacteria, viruses and pathogenic microorganisms, which could cause infections and allergies. Did you know that more than 90% of all towels are contaminated with different kinds of bacteria? Our business partner from Poland - the company Zwoltex has developed and patented a high-tech antibacterial agent based on nanotechnology, part of which is also our nano  $\text{TiO}_2$ . Impregnating agent that contains our nano  $\text{TiO}_2$  is incorporated into bath and kitchen towels, which in combination with incident light results in antibacterial and antifungal activity, which has been confirmed by laboratory tests, while at the same time ensuring safe use. You can read more on antibacterial towels at: <https://zwoltex.pl/tresc/31-antibacterial>.



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