Antimicrobial Finishing Of Textiles By Modified Clay Minerals

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Abstract

Antimicrobial finished textiles are suitable for a wide range of applications. For instance, they can be advantageous in sportswear, but are also usable for hygienic and medical products. Especially patients suffering from neurodermatitis or diabetes can gain benefits due to a reduced risk for the appearance of secondary infections. An antimicrobial effect can be realized by metal ions from zinc, copper, and silver. An inorganic storage matrix is applied to load the material with these metal ions. Fixation of storage matrices is done by sol-gel-technology. The resulting porous hybrid film allows the ions to diffuse into the surrounding medium.