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Nano Textile Presents Innovative Antibacterial Textile



Nano Textile, an Israeli based company has introduced a revolutionary technology that can prevent the growth of bacteria on both natural and synthetic fibres, can prevent the spread of hospital acquired infections and reduce cross contamination between patients and medical staff.

The revolutionary technology transforms any readymade fabric into antibacterial textile by embedding zinc-oxide (ZnO) nanoparticles onto the fabric. The technology was developed by Aharon Gedanken from the department of chemistry at Bar Ilan University, Israel has been patented in the US and Israel, and is awaiting approval in Europe and Asia.

The novel technology enables the cost effective creation of antibacterial fabrics using any desired fabric, without changing its appearance, since ZnO is colourless. The fabrics can withstand up to 65 wash cycles at 92 °C and up to 100 wash cycles at 75 °C, without losing their antibacterial properties.

"The main advantages of the technology is that it can apply anti-bacterial properties to any kind of readymade fabric, the treatment does not at all alter the fabric's colour, and the entire process is extremely cost-effective. In a hospital setting, for example, our technology can be used for inserting anti-bacterial characteristics to staff uniforms, patients' pajamas, linen, blankets and curtains, in order to significantly reduce morbidity and mortality and in parallel reduce hospitalization costs," explains Gedanken.

"After establishing proof-of-concept, we are now in the process of raising the necessary capital to begin operations. The potential for our antibacterial fabric technology reaches far beyond medical applications, as it is relevant to a variety of industries such as airplanes, trains and luxury cars in the transportation industry; babywear, sports clothing and undergarments in the clothing industry, restaurants and hotels in the entertainment and tourist industries," said Lilac Mandeles, president, Nano Textile. (NA)

Provided by TechnicalTextile.net

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Figi FITI Testing & Research Institute 892-64 Jegi -Dong Dongdaemun - Gu Seoul Korea Contact us : fitiplus@fitiglobal.com / Unsubscribe Copyright © 2011 FITI Testing & Research Institute, All rights reserved

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