



NANOPOOL

2010 European Antibacterial Nanocoatings New Product Innovation Award

Frost & Sullivan Award Recognises Nanopool's Innovative Liquid Glass

Nanopool's Antibacterial Nanocoating Product Combines Safety with High Antimicrobial Properties

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The 2010 Frost & Sullivan EU New Product Innovation Award in the field of Antibacterial Nanocoatings is presented to Nanopool GmbH in recognition of its innovative liquid glass product. This solution effectively addresses the industrial need for a safe antibacterial coating solution that can be conveniently applied on any surface.

"Additional benefits such as heat resistance, hydrophobicity and flexibility further underline its appeal," notes Frost & Sullivan Research Analyst Ankit Ashokkumar Shukla. "Ease of application and the ability to be customised to suit the needs of specific applications and industries highlights its potential to replace existing antibacterial coating products."

The innovative application of silicon dioxide at a nanometric scale as an antimicrobial coating has ensured that liquid glass attains high disinfectant properties, previously achieved only by silver nanocoatings. While the toxicity of silver has been an area of concern, liquid glass, the nano silicon dioxide product, has been subjected to several clinical tests and found to be compliant with DIN EN ISO 10993-(1-12) standards, hence completely biocompatible.

"In addition to being antibacterial and safe, the nanocoating product offers many benefits: it is repellent to water and dirt, making coated surfaces easy to clean and maintain," remarks Shukla. "Moreover, the transparency of the coating renders it almost invisible, hence restoring the aesthetic appeal of the original surface."

It can resist heat and cold as it functions at a wide range of temperatures (-150 to +450 degrees C). This enables it to be used in appliances such as ovens and air conditioners. It also has extremely high durability: the coating can protect the surface for more than ten years, thereby reducing or sometimes almost nullifying maintenance costs.

Nanopool’s liquid glass can be wiped or sprayed onto the surface easily. This reduces the need for assistance in coating. The possibility of dipping small items into the liquid product enhances the convenience of the coating process.

Nanopool’s liquid glass can be used for numerous applications ranging from plant protection for agriculture to providing solutions for highly technological sectors such as aerospace and biomedical. The product also finds use in diverse areas such as building & construction, automotive, production, packaging and transport, retail and hotel industries.

“Nanopool has successfully partnered with supermarket and food chains to provide protection for surfaces against microbes which, in turn, protects foods from infestation,” comments Shukla. “In addition to industrial applications, the company works with social institutions such as kindergartens, schools, retirement homes and hospitals to effectively prevent the proliferation of bacteria.”

The New Product Innovation Award is presented to the company that has excelled in the following criteria: innovative element of the product, leverage leading edge technologies in product, value added features/benefits, increased customer ROI (small change) and customer acquisition/penetration potential.

Decision Support Matrix for New Product Innovation Award

<i>Measurement of 1–10 (1 = lowest; 10 = highest)</i>	Award Criteria					
	Innovative Element of the Product	Leverage Leading Edge Technologies in Product	Value Added Features/Benefits	Increased Customer ROI (small change)	Customer Acquisition/Penetration Potential	Weighted Rating
Relative Weight (%)	20%	20%	20%	20%	20%	100%
Nanopool GmbH	9	8	9	9	8	8.6
Competitor 1	7	7	6	6	7	6.6
Competitor 2	6	5	7	6	6	6.0

Frost & Sullivan Best Practices Awards recognise companies in a variety of regional and global markets for demonstrating outstanding achievement and superior performance in areas such as leadership, technological innovation, customer service, and strategic product development. Industry analysts compare market participants and measure performance through in-depth interviews, analysis, and extensive secondary research in order to identify best practices in the industry.

About Nanopool GmbH

Headquartered in Schwalbach, Germany, Nanopool has been developing coating solutions based on silicon dioxide chemistry. The company has been able to develop surface solutions for almost every field of application and for most surface materials. The company is self-funded and believes in speed to market with minimum time for R&D. It has penetrated into various industries through its core competence; incorporating nanotechnology into silicon dioxide to give customized products. The company continues to conduct R&D to develop environmentally friendly products for completely new applications as well as market areas where solutions have not been possible through conventional methods due to high costs, efforts and environmental concerns.

Pictures: <http://www.nanopool.eu/de/presse/downloads>

Interesting link about MRSA:

International Society for Pharmaeconomics and Outcomes Research
<http://www.ispor.org/awards/9euro/StrenslN4.pdf>