

NANOFICS*

- ◆ NANOFICS* technology refers to a group of nano-scaled functional coatings developed by EUROPLASMA
- ◆ **Nano-scaled functionalization into core of complex shaped materials/products**

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- ◆ The coatings are applied by low pressure plasma polymerisation or atomic layer deposition
- ◆ These coatings are typically thinner than 100nm and add permanent new functionalities to the material
- ◆ NANOFICS* technology guarantees a uniform coverage of complex three dimensional structures

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Applications

- ◆ Super hydrophobic nano-coatings: to protect electronic devices such as hearing aids or smartphones against liquid damage, to protect PCB's against corrosion, to make ultra light aircraft foams water repellent, for engine air intake conducts, to improve diesel engine filter media, ...
- ◆ Oleophobic nano-coatings: to improve filter efficiency of electret filter media, to make filtration membranes super oleophobic (level 8), to prevent cell growth on medical implants, to improve performance of personal protective equipment, ...

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Applications

- ◆ Super hydrophilic nano-coatings: to improve wettability of culture growth products, blood filter media, battery separators, ...
- ◆ Barrier coatings: to prevent oxidation of metal surfaces, for food packaging materials, ...