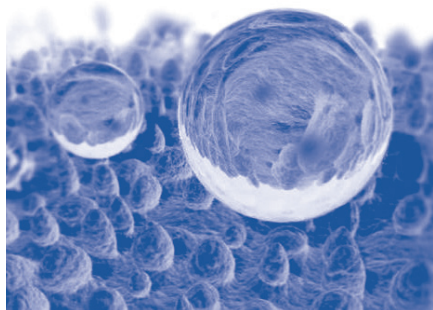


# nanotechnology





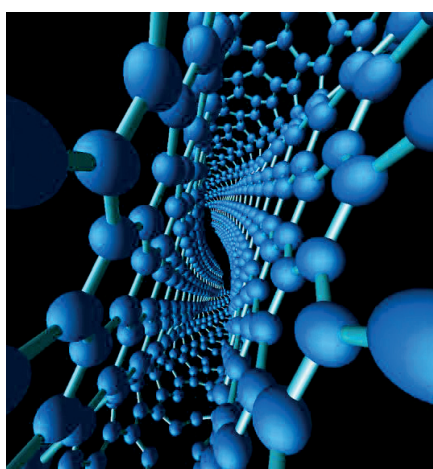
# "nanotech" revolution



The continued investment in the research into new technologies and fabrics has always been one of Erreà Sport's most important objectives.

It is our constant desire to produce products which are stylish and comfortable using highly technical fabrics ideal for enhancing the performance of all those who live for and love sport.

We are distinguished by being the first ever teamwear manufacturer to produce absolutely unique and innovative garments using **nanotechnology**.

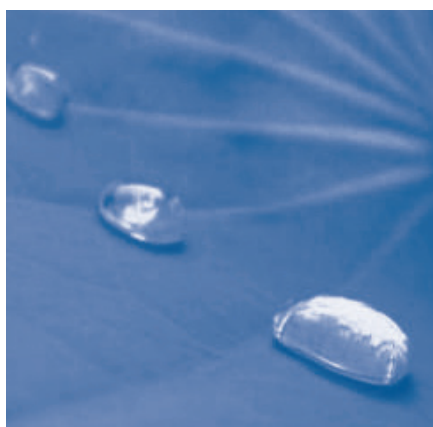


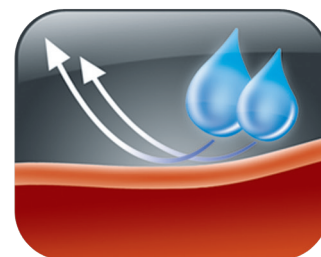
Tested for the first time during the 2008/2009 season by teams at the highest level, such as Atalanta B.C., Parma F.C. and Middlesbrough F.C., the revolutionary match shirts made from **Ti-energy** nanotechnology fabric have acquired, from their first use, considerable attention and success.

**Nanotechnology** refers to the combination of methods and techniques used for observation, study and transformation of matter at atomic and molecular level.

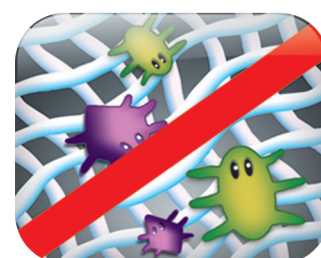
The revolutionary prospective associated with nanotechnology stems from the fact that they represent a radically new way to produce material, structures and devices with greatly improved and entirely new properties and functions.

In particular, in the industrial textile and clothing sector, nanotechnology is already having an explosive impact, resulting in new and astonishing cha-

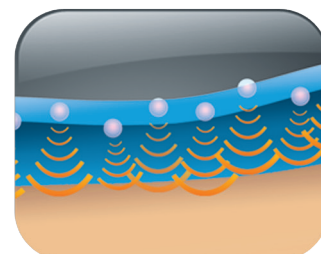




**water and oil repellency**



**anti-bacterial**



**infrared wave**



**anti-stain**



characteristics of the fibres and influencing systems of production.

The Erreà products made with this technology are characterised by the use of **nano-particles of silver and titanium** inserted directly into the **fibres of the fabric**, which invest the **garments with water and oil repellency, anti-stain, anti-static, anti-bacterial and breathable properties**.

These properties are all **permanent** over time which sets them apart from the dyeing process treatments, used by the majority of producers, where the effects disappear with repeated washing.

The **nano-particles of silver and titanium** provide the fabrics with improved aesthetic characteristics and a lighter feel as well as greatly increased strength and durability.

They are able to create a **barrier** which impedes the penetration and adherence of liquids and stains. Which means that particles of dirt remain on the surface and can be removed with a greatly reduced amount of detergent and the fabric has an extremely fast drying time.

The nano-particles of **silver** also have the power to combat the proliferation of bacteria.

Importantly, the **titanium**, thanks to the **emission of infrared waves**, im-

The two graphs demonstrate the speed and enhancement of the blood circulation in relation to wearing a tradition 3D Wear garment (fig.1) and a 3D wear shirt made using nano-particles of silver and titanium (fig. 2). Please note the considerable increase of the blood flow when wearing the new 3D Wear line in T-energy fabric.





proves blood circulation and helps to maintain a constant body and muscle temperature, preventing the feeling of the skin being wet and without risking the onset of coldness when cooling-down.

The improved oxygenation of body tissue, allows for the **elimination of toxins, the re-absorption of lactic acid and the reduction of inflammation and micro-traumas**, accelerating recuperation from muscle injury.

The Ti-energy garments with nanotechnology are developed to provide **maximum comfort** and, thanks to them, muscles will respond with maximum performance.

**Parma F.C., Bari A.S., Atalanta B.C., Numancia C.D. and USAP Rugby** are some of the prestigious teams, sponsored by Erreà, who during the **2010/2011 season** are wearing "nanotech" match kits, recognised on the international scene for their quality and innovation.

Inside the Erreà catalogue, many of the ranges and styles are produced using Ti-energy fabrics and are available to **all non-professional sports clubs**.

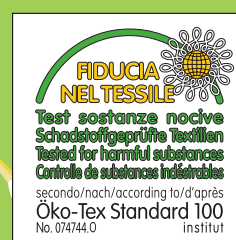
All the Erreà fabrics are certified by **Oeko-Tex**, the institute which has been the globally recognised authority for the research and testing of ecological fabrics for over 15 years.

This certification guarantees that Erreà products do not release toxic substances in amounts greater than the limits laid down in the **Oeko-Tex Standard 100** which represents the international point of reference for the security and quality of textile products and constitutes an important guarantee for everyone who wears Erreà products.



*our fabrics  
do not contain  
harmful substances*

**Oeko-Tex certification** constitutes a fundamental **guarantee for all the end users of Erreà products** and represents an added value to our company, which is always sensitive to and attentive of **health issues**, especially where young children are concerned.



THE **OEKO-TEX** MARK CERTIFIES  
THAT ALL PRODUCTS  
HAVE PASSED THE TESTS OF THE  
**OEKO-TEX STANDARD 100**



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