

FROM TECNOFILATI, THE NEW YARN THAT PROTECTS THE BODY.

The latest addition to the Tecnofilati household is **Resistex® Bioceramic**, which is also part of the range of technical yarns with an innovative heart, which improve any performance. The secret to **Resistex®** yarns is continuous research. Tecnofilati labs has perfected the innovative **Bioceramic** technology that was designed to cope with environmental changes and their effect on our health.

FEATURES

Polyester and Bioceramic for total protection.

Resistex® Bioceramic is a polyester fibre bonded to bio-ceramic material that is good for the body. It naturally absorbs harmful UV-A and UV-B ultraviolet rays that can irritate and burn the skin. It also reflects the hot rays of the sun, creating a genuine barrier against heat.

This unique technology helps lower the internal surface temperature of the fabric to keep you cool and comfortable during sports activities and under the sun. The result is a considerable decrease in calorie consumption and therefore of the body's physical energy.

Due to the presence of bio-ceramic material, Resistex® Bioceramic has high heat insulating properties, allowing the body temperature to remain constant even in extremely cold conditions. Finally, **Resistex® Bioceramic** has a stimulating action on the microcirculatory system and constantly boosts the metabolism.

Solar energy for wellbeing.

Bio-ceramic is capable of reproducing the FIR (Far Infrared Rays) emitted by the sun; these are a type of electromagnetic waves of reduced length, which are part of the sunlight spectrum and similar to its invisible rays (gamma rays, X rays and ultraviolet rays), as they are capable of penetrating to a depth of 4/5 cm and of vibrating at the same frequency as the human body.

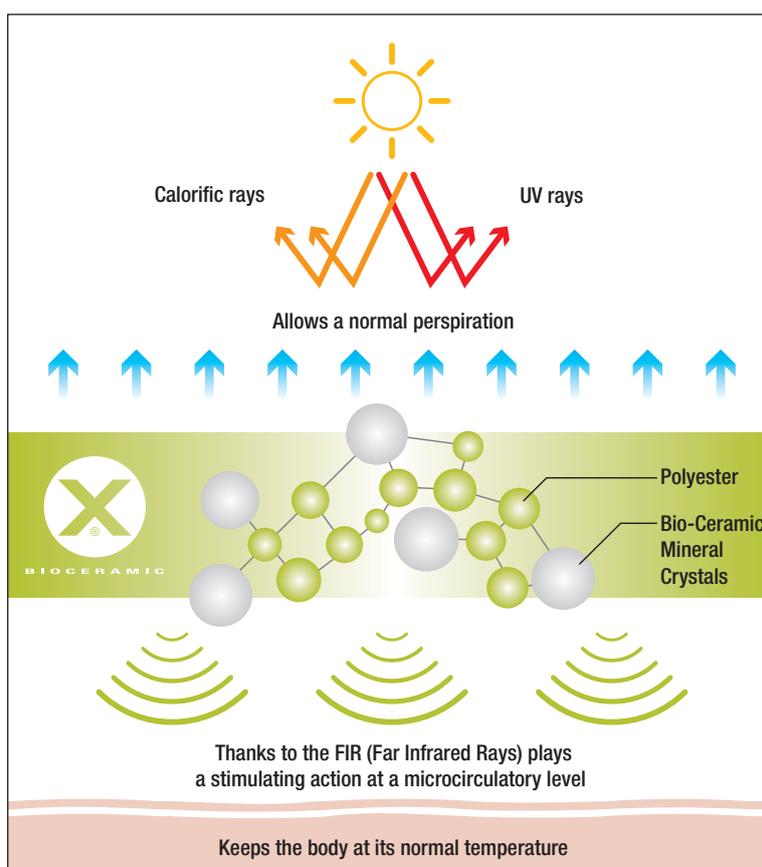
Some biological research studies have shown that, due to these properties, FIR are absorbed extremely easily by the body, providing it with an essential contribution for growth and development. The heat generated by FIR facilitates relaxation of contracted muscles.

The increase in blood flow following vasodilation allows a greater amount of nutritional substances, oxygen, white blood cells and antibodies to reach the tissue and promotes the removal of catabolites from tissue. These biological changes improve tissue trophism, facilitating the repair of damaged tissue and speeding up recovery from inflammatory infiltrates. However, the solar spectrum also contains a class of rays that are harmful to humans, ultraviolet rays (UV-A and UV-B), which are mostly absorbed by the ozone layer present around the earth. Unfortunately, due to atmospheric pollution the protective action of the ozone layer is being progressively reduced, making it easier for ultraviolet rays to pass through, decreasing the ability to absorb precious FIR, and increasing harmful effects on human health. These requirements have led to the creation of **Resistex® Bioceramic**, a yarn capable of offering total body comfort.



Features of the innovation:

- the latest generation: made of durable polyester and bio-ceramic material that can withstand frequent washing
- very versatile: can be used with many natural fibres
- total protection: shields against harmful UV-A and UV-B ultraviolet rays
- active heat barrier: stays cool for longer under the sun and during sports activities
- excellent insulation: bio-ceramic fibres protect against the cold
- FIR emission: the rays stimulate the microcirculatory system and boost the metabolism



USES

Due to its extraordinary qualities, the **Resistex® Bioceramic** yarn range is suitable for use in a variety of sectors. In fact, due to the protective action of **Resistex® Bioceramic** against UV-A rays, which cause damage to fibrous tissue and drying and premature aging of the skin, against UV-B rays which can be absorbed by the skin, subjecting it to the risk of burning, and to its extraordinary ability to produce FIR (far infrared rays), capable of stimulating the micro-circulatory system, it can be used in:

- Hosiery and sportswear
- Lingerie and underwear
- Blankets
- Mattresses
- clothing and outerwear
- Knitwear
- Bed sheets