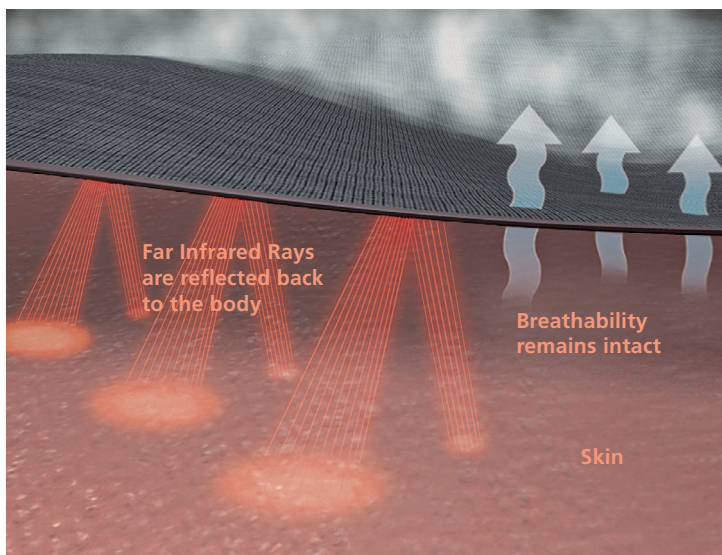


energear™ is an entirely new textile technology from Schoeller. It ensures that the energy radiated by the body is reflected back to the wearer. Practical tests prove that this additional energy has a positive effect on performance and wellbeing.

energear™ – The function

A special titanium and mineral matrix developed specifically for energear™ causes energy radiated by the body to be reflected back by the fabric in the form of Far Infrared Rays. This development uses the ancient knowledge of the capacity of certain minerals to reflect back heat energy rays. Additionally, Far Infrared Rays have long been in use for medicinal therapeutic purposes.

The result is the reflection of the body's own infrared rays providing the body with additional energy. This allows the heat balance to be optimized and promotes various energetic processes in the body without having an effect on fabric properties such as breathability and elasticity.



energear™ – The effect

The reflection of Far Infrared Rays promotes blood circulation and the increase of oxygen levels in the blood, having various positive effects on the body:

- Performance enhancement and prevention of premature fatigue
- Improved regeneration
- Shorter warm-up phase
- Increase of concentration and overall wellbeing

energear™ – The possible uses

The use of energear™ makes particularly good sense where physical performance and stamina are called for; such as in clothing for biking and mountain sports, for trekking and hiking, for motorcycling, in workwear and military wear, but also in urban and daily wear.

Far Infrared Rays

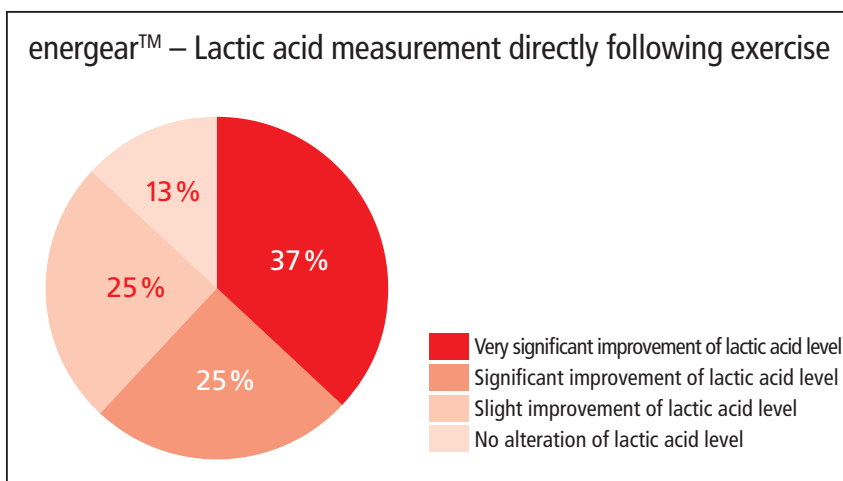
Far Infrared Rays are a component of infrared rays. They are radiated by the sun, certain stones and metals and by the human body. Their therapeutic properties have long been recognized in Asian medicine. Use is also made of Infrared Rays, for example, in modern saunas.

Far Infrared Rays have a range of positive effects on energetic processes in the human body. They can be experienced as pleasant warmth, better circulation and also as enhanced performance and general wellbeing.

Various stress tests have been performed to verify the function of energear™. Two identical outfits were tested, one with the energear™ finish and one without. The test subjects wearing energear™ experienced proven positive effects and in some cases, the benefits of energear™ were greater among those who do not exercise regularly.

energear™ – Effects within the framework of lactic acid tests

Among many test subjects, results showed varying degrees of lactic acid levels during physical exercise. The levels of lactic acid in the blood were measured immediately after physical exercise. The levels of lactic acid in many of the test subjects with the energear™ outfit were lower than those of test subjects with the comparative clothing. Given the fact that an increase of lactic acid levels during physical exercise leads to more rapid muscle exhaustion, the tests show that energear™ can enhance physical performance.



energear™ – Effects on heart rate

Further positive effects of energear™ in stress tests can be determined in terms of heart rate. It was found that with physical activity, the heart rate of the test subjects with the energear™ outfit could be positively influenced, and in some cases considerably. For example, in some cases the heart rate of the test subjects was reduced by up to 20 beats per minute.

Although human heart rate is dependent on many factors, such as age and level of fitness, in general keeping a lower heart rate during exercise means an individual tends not to reach his/her personal limit as quickly and can also recover faster.

