



Energy and wellness

Smart yarns for active wellness

Wearable technology that amplifies the body's power

Introducing Radilon® Enjoy, the ultimate **polyamide yarn** that **combines science** and **technology** to create **multi-functional** and **high-performance garments**.

Radilon® Enjoy is a yarn that, thanks to a **natural ceramic mineral additive** embedded in the fibre, returns body heat (energy) to the skin and superficial tissues in the form of **Far Infrared Rays (FIR)**.

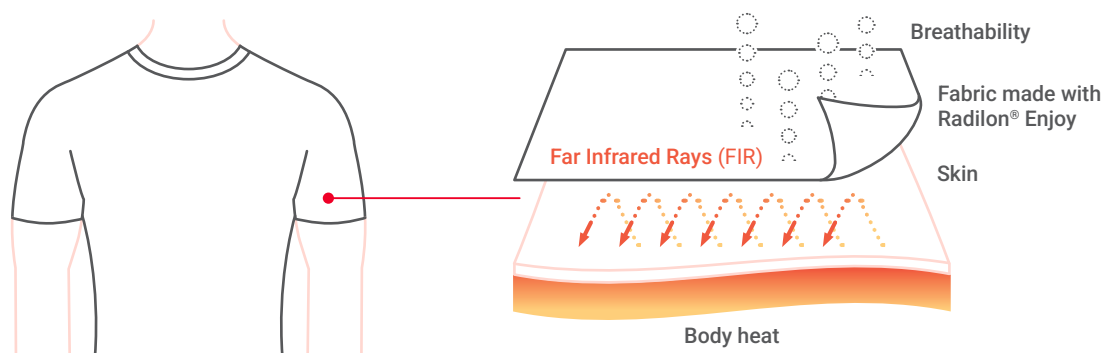
This essential mechanism stimulates cells, enhances muscle elasticity, and improves skin appearance.

Radilon® Enjoy's FIR emissive performance has been scientifically validated in accordance with **internationally recognized standards** (ASTM E1933 and FTTS-FA-010), as well as through internal laboratory testing.

Far Infrared Rays technology, how it works

The **primary source of energy** needed to power FIR (Far Infrared Rays) emission from the garments **is the human body itself**, as it is significantly warmer than the surrounding air.

The **energy emitted by the human body is absorbed and reflected back by the ceramic particles**, via a perfectly efficient mirror effect.



Advantages of co-branding with RadiciGroup

RadiciGroup is available for cooperation in order to associate the Radilon® Enjoy brand to textile collections. The co-branding:

- unlashes creativity;
- grants transparency in the supply chain;
- is an example of sustainability for the market;
- ensures a deeply-rooted know-how in synthetic fibres.

Far Infrared Rays technology in **Radilon® Enjoy**

The ceramic mineral additive of Radilon® Enjoy is:

- **stable**, making the yarn easily processable especially for any applications. Available for any technology from woven to knitted fabrics;
- **safe and inert**, 100% dermocompatible;
- **permanent**, performed at polymeric level, our solution can resist washing, general use and sunlight.

Radilon® Enjoy specialties:

care

Designed for easy maintenance, it offers long-lasting durability and resistance to wear.

lightness

Exceptionally lightweight, it is perfect for activewear and garments that require high mobility.

comfort

Advanced technology ensures a soft and comfortable feel against the skin.

functional

Thermal properties help improve circulation, regulate body temperature and provide gentle, soothing warmth.



Whether you are designing for active people or athletes, supporting recovery with medical-grade solutions or studying new skincare and beauty products, **Radilon®Enjoy can be the perfect ingredient for your next project.**

Why choose **Radilon® Enjoy** for **Sportswear**

More power

Evidence from recent studies shows that far-infrared emitting garments can **positively influence neuromuscular function**, including **strength and power** output of key muscle groups. A tangible step forward for those seeking excellence in sports performance.

Less fatigue

In the context of sports, fatigue represents a crucial challenge. Clothing with FIR technology has been shown to **minimize the reduction in strength under fatigue**, offering essential support to maintain high-level performance. Furthermore, the subjective evaluation of **physical effort is significantly reduced**, allowing athletes to overcome their limits with less perception of fatigue.





Hydration

Exposure to low-energy FIR electromagnetic waves has been associated with increased **skin hydration**, likely due to enhanced **molecular vibration** and the reorganization of water clusters, supporting improved **moisture retention**. Studies indicate that FIR supports optimal **hydration balance**, contributing to improved sports performance.

Oxygenation

FIR stimulation promotes vasodilation and boosts microvascular blood flow, facilitating greater oxygen delivery to tissues. This means a **more efficient pre-race warm-up and postrace recovery**, as well as **better muscle elasticity**, which **reduces the risk of injury**.

Why choose **Radilon® Enjoy** for **Cosmetics**

Improvement in skin firmness

Exposure to FIR electromagnetic waves has been associated with **increased collagen density**, contributing to visibly firmer skin over time.

Improvement in skin elasticity

Far-infrared (FIR) technology has been shown to stimulate collagen and elastin synthesis, resulting in **improved skin elasticity**.

Improvement in the visibility of cellulite blemishes

Exposure to far-infrared (FIR) electromagnetic emission from specially designed fabrics has been associated with **reduced subcutaneous edema, improved skin texture**, and a **decreased appearance of cellulite**.



Why choose **Radilon® Enjoy** for **Medical Apparel**

Reduction of recovery times after injury

FIR technology guarantees a **better oxygenation of cells** and **tissue reconstitution**.

Reduction of pain

By boosting blood circulation, FIR technology **provides relief**, especially in cases of **chronic venous insufficiency**.

Antibacterial

Tests against **Staphylococcus aureus ATCC 6538** and **Klebsiella pneumoniae ATCC 4352**, demonstrate effective **antibacterial action**.



With RadiciGroup, the future of wellness is sustainable, full of opportunities and wearable!

Radilon® Enjoy endless possibilities

Radilon® Enjoy is the ideal solution for applications that demand both functionality and high performance. It offers countless possibilities in:



Sportswear



Legwear



Intimate wear



Footwear



Med-tech



Babywear



Apparel

RadiciGroup. Inside your world.

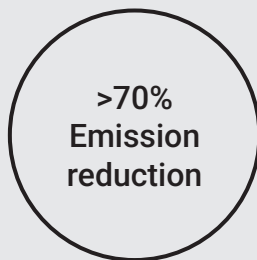
RadiciGroup is one of the world's leading producers of a wide range of chemical intermediates, polyamide polymers, high performance engineering polymers and advanced textile solutions, including nylon yarn, polyester yarn, yarn made from recovered and bio-source materials, nonwovens and personal protective equipment for the industrial and healthcare fields. These products are the result of the Group's outstanding chemical expertise and vertically integrated polyamide production chain and have been developed for use in a variety of industrial sectors, such as: automotive, electrical and electronics, household appliances, consumer and industrial goods, apparel, furnishing, construction, sports. The basis of the Group's strategy is a strong focus on innovation, quality, customer satisfaction and social and environmental sustainability.

Sustainability

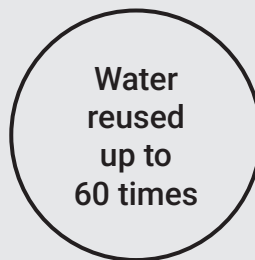
Every day at RadiciGroup, we work to make circularity our business model. We optimize the use of materials while fine-tuning our processes, eliminating waste and promoting recyclability from the earliest product design phases. We are always looking for low-impact solutions in terms of natural resources and energy. We rely on certified management systems for Quality, Health and Safety, Environment and Energy to keep our companies in line with the highest sustainability standards.



GRI, third-party certified
Sustainability Report
covering all RadiciGroup
companies worldwide.



Since 2011,
in RadiciGroup plants.



Water reused
in RadiciGroup
production plants.

Data Source: RadiciGroup Sustainability Reports



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