

Outstanding qualities

- Thinner, lighter, warmer insulated textile products
- Patented radiant barrier technology allows higher insulation efficiency
- Less insulation, more sustainable
- Excellent heat retention

Added value

- Saves up to 50% insulation material for more packable garments
- No impact on fabric breathability, handle, zero noise, DWR and down-proof properties
- Exceptional efficiency and durability up to 20 washes

Wide-ranging applications

 The perfect solution for fashion and outdoor jackets, pants, skirts, gloves, sleeping bags, duvets and blankets

Universal compliance

OEKOTEX suited and aligned with RSL

WHAT DOES IT DO?

HeiQ XReflex is an ultra-thin heat reflective surface added to one side of the fabric by high-tech vapor deposition.

WHAT IS IT FOR?

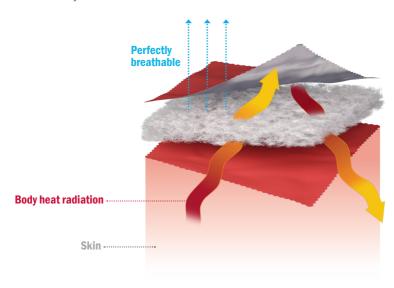
Reduces insulation bulk by up to 50%, HeiQ XReflex is the perfect solution for a wide range of applications.

xefco

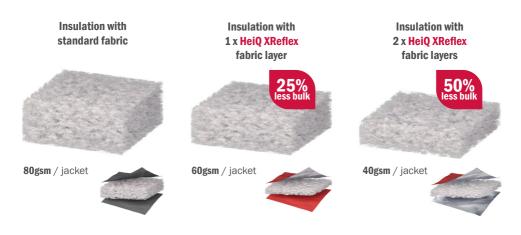
INNOVATIVE RADIANT BARRIER TECHNOLOGY AT WORK

HeiQ XReflex™: Radiant barrier technology

HeiQ XReflex radiant barriers are positioned facing the insulation on one or both sides of the insulation layer



TRAP MORE HEAT WITH LESS INSULATION MATERIALS





Same warmth: Thermal resistance of 0.24 $\text{m}^2\,\text{K/W}$



HEIQ XREFLEX PRODUCT LEVELS







Further HeiQ XReflex layered assemblies are possible in addition to the examples shown.

RETAINING WARMTH BY REFLECTING HEAT BACK TO THE BODY

The human body loses heat through evaporation, convection, conduction but mostly through thermal radiation. HeiQ XReflex mitigates this heat loss by utilizing a high-tech deposition process to apply ultra-thin, breathable radiant barrier surface coatings onto fabrics. These radiant barrier surfaces reflect radiant body heat, increasing heat retention to create thinner, lighter and warmer products.

UNAFFECTED BREATHABILITY



Front face of fabric



Back of fabric with radiant barrier enhancement

^{*}Scanning electron mircoscope photo



^{*} DEA3500: Ambient Environment: Thermal Regulation, Cornell University (CU Ergo)

Less insulation material, more sustainable

- Advanced insulation system comprised of recycled materials that are also recyclable
- Saves up to 50% insulation material for reduced environmental footprint

SAVINGS







3.7ton CO₂



141'000MJ energy

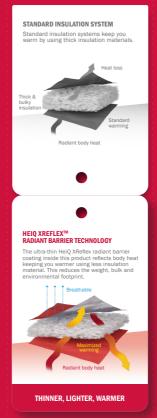
* Based on the production of 10,000 jackets with an average 200g insulation material where two HeiQ XReflex radiant barrier layers are used. It allows insulation weight to be reduced from 80gsm to 40gsm, saving approximately 100g of insulation per jacket.













Get inspired and learn more about our innovative technologies info@heiq.com

HeiQ Materials AG

Ruetistrasse 12, 8952 Schlieren (Zurich) Switzerland info@heig.com, +41 56 250 68 50

www.heiq.com

