





VALTHERM®
ACTIVE
POWERED BY





Wadding with Valtherm Active Powered by  Technology adapts to your needs to help control your temperature, expanding your comfort range even when your environment or activity level changes.

Now the same jacket can keep you comfortable in a tense meeting, a long flight, a frigid board room, a twenty-block walk, or a run through the train station.



WHAT IS TECHNOLOGY?


It's a thermoregulation technology that interacts with the body and triggers off humidity.

It's powered by naturally occurring, activated particles.





HOW LONG WILL IT LAST?

 Technology is a permanent technology that will last the lifetime of the garment.

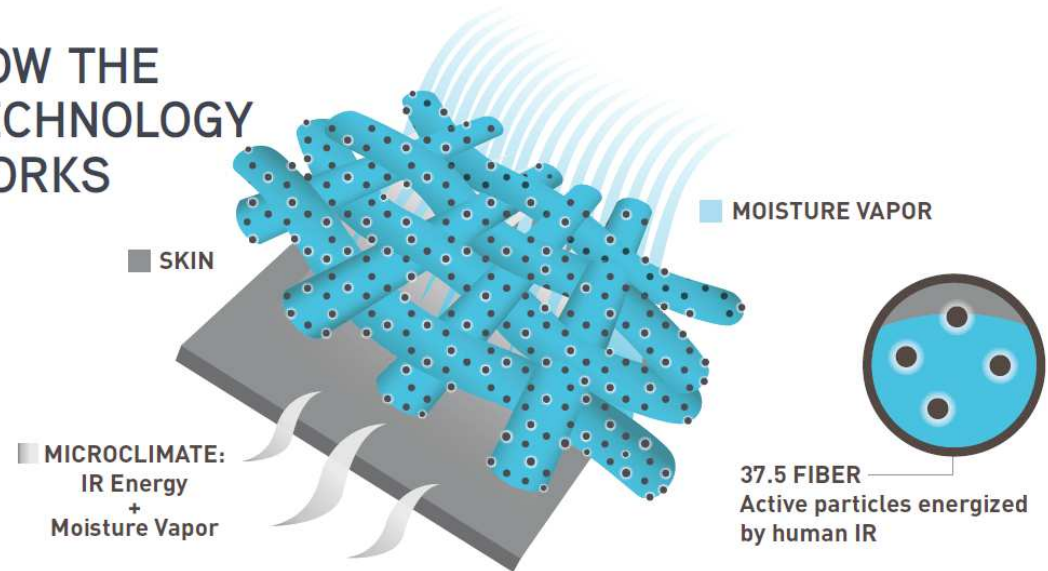
It's not a chemical finish;
the natural particles are embedded in the yarns or fibers that make up the garment and will never wash out.



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HOW THE TECHNOLOGY WORKS



HOW DOES IT WORK?

It works with your body to determine if you need warming or cooling based on the amount of humidity next to your skin, which is the body's way of expressing whether it's hot or cold.

The active particles capture the infrared (IR) energy your body emits and if moisture is present it speeds the evaporation to cool you.

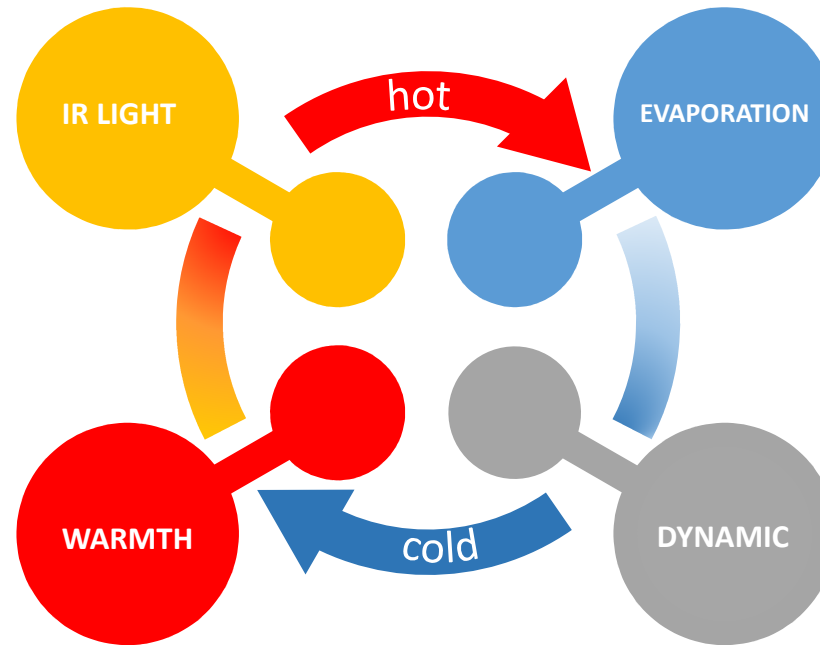
If no moisture is present, the IR energy is returned to keep you warm.



HOW CAN IT WARM OR COOL?

It's all about humidity.

The active particles absorb IR light. This is the battery that powers the particles

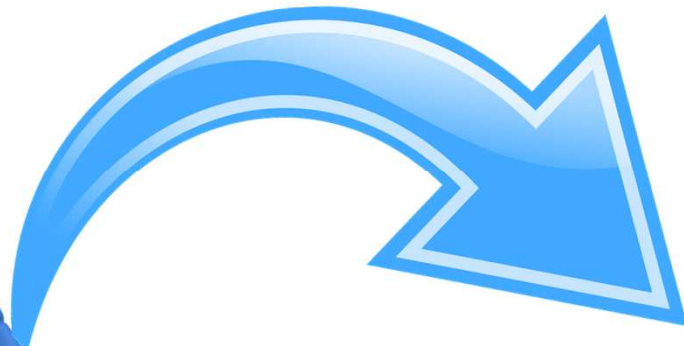


If moisture is present, you're hot. It uses the IR energy to evaporate that moisture.

If moisture is not present, you are cold. The particle returns that IR light to you as warmth.

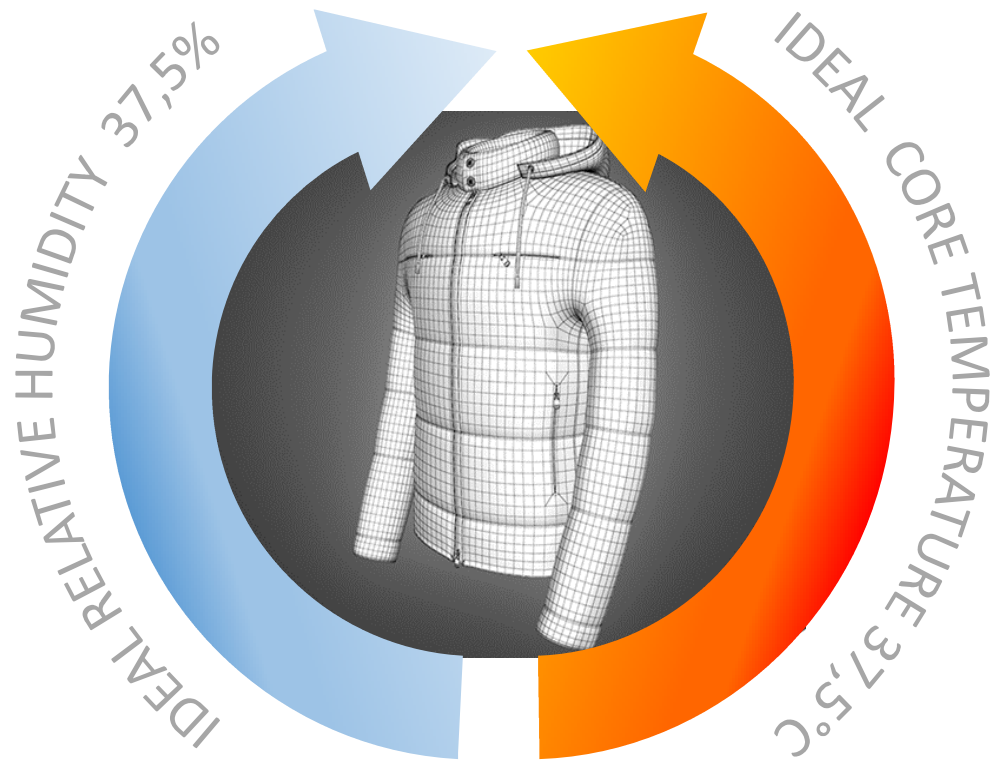
You have an endless supply of IR light, so the process is dynamic and continuous.

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SKIN (ACTIVATOR)

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PERFECT
MICROCLIMATE
AND
TEMPERATURE
FOR BETTER COMFORT
AND PERFORMANCES



FUNCTIONAL BENEFITS

Valtherm Active Powered by 37.5 Technology contains active particles that increase your performance and comfort by removing moisture when you're hot and retaining warmth when you're cold.



Thermal regulation



Personal microclimate 37,5% humidity



Quick dry



Breathable



Active particles naturally derived



Moisture management



Odors trapped / released when washed



Light weight

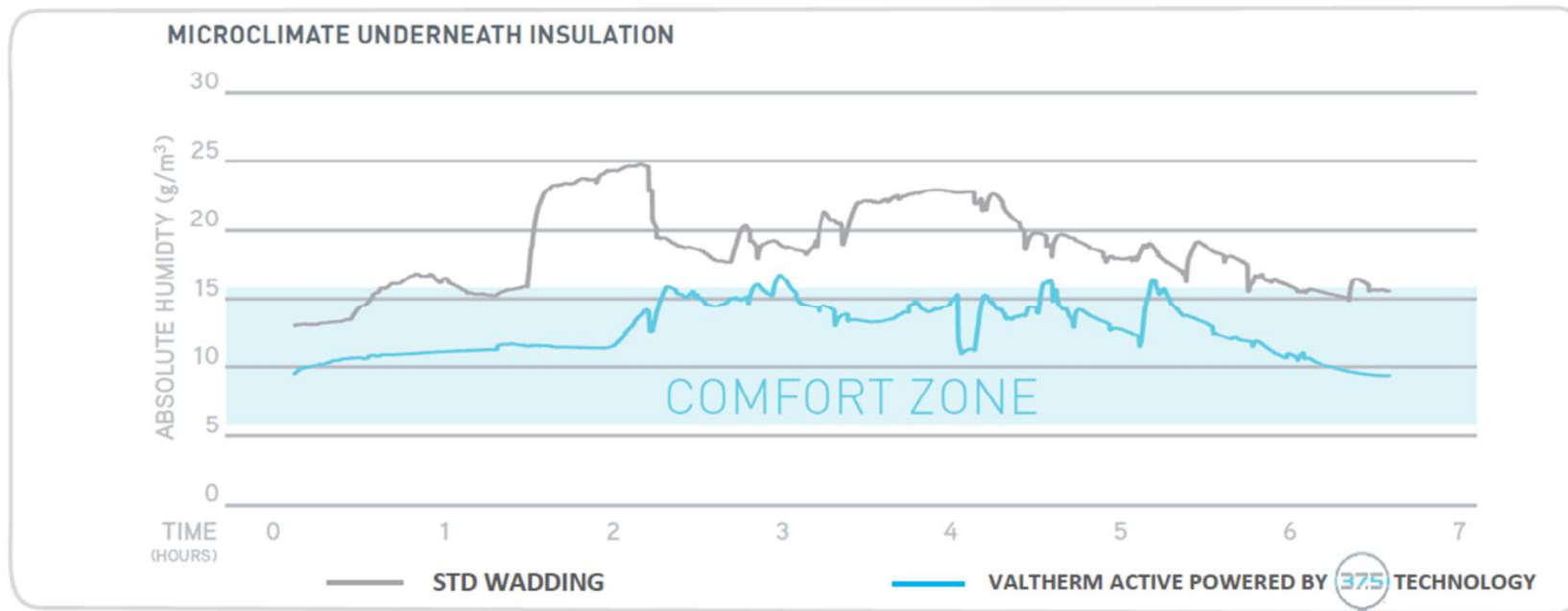
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- ✓ Significant correlation between the measured absolute humidity beneath the jacket (objective) and the subject's comfort rating (subjective)
- ✓ Lower microclimate absolute humidity level and a longer time to discomfort.

RESULTS: LESS HUMIDITY, LONGER TIME TO DISCOMFORT

Sample	Time it took to reach discomfort	Maximum Heat Index Under Jacket	Percentage of time in the Comfort Zone
Jacket with wadding containing Valtherm Active Powered by 37.5 Technology	1hr 24min	85.5°F/29.7°C	88%
Jacket with std wadding	47min	94.1°F/34.5°C	76%



Insulation system with 37.5 technology (blue line) was in the comfort zone 97% of the time, whereas in the system without 37.5 technology (grey line) the user was in the comfort zone only 23% of the time.

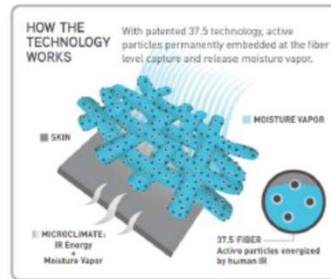
Data from "THG AreaView – microclimate is visible!
Test measurements February 2014" CRuss Netconsult (Germany)



TDS

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SCHEDA TECNICA
TECHNICAL DATA SHEET



Valtherm Active Powered by
37.5 Technology

Codice
Code RES/2383



Certificato n°
Certificate n° FM016 100824 OETI

Le tipiche imbottiture sintetiche soprattutto quelle trattate con una finitura idrorepellente, limitano il passaggio del vapore attraverso l'imbottitura. L'umidità può accumularsi al di sotto dei vestiti e all'interno dell'isolamento, l'acqua può addirittura condensarsi, creando un microclima sgradevole e disperdendo il calore per conduzione.

Valtherm Active Powered by 37.5® Technology utilizza le particelle attive 37.5® brevettate incorporate permanentemente a livello delle fibre catturano e rilasciano il vapore acqueo.

Le particelle catturano e sfruttano il calore a infrarossi del corpo per accelerare il moto del vapore e velocizzare il passaggio dallo stato liquido a quello gassoso: più caldo diventa il corpo, più cresce l'energia che rimuove l'umidità, e l'indumento è sempre più confortevole.

Valtherm Active Powered by 37.5® Technology favorisce l'evaporazione dell'umidità e del calore in eccesso che contiene all'esterno del microclima, ma preserva il valore di CLO (capacità isolante).

Valtherm Active Powered by 37.5® Technology ha un valore CLO per unità di peso pari a 0,024 clo/(g/m²). Grazie alla capacità di controllare l'umidità del microclima corporeo, Valtherm Active Powered by 37.5® Technology consente di creare indumenti adatti a una molteplicità di situazioni. Senza il surriscaldamento provocato dall'accumulo di umidità e senza la dispersione del calore per conduzione, causata da un'isolante umido, non è più necessario eliminare strati di indumenti per alzare o abbassare la temperatura corporea.

Un benessere senza precedenti, in una più ampia serie di attività e oscillazioni termiche.

Qvatta prodotta rispettando il sistema di certificazione ISO 9001 e realizzata secondo alti standard di qualità.

Typical synthetic insulations, and especially insulations treated with a water repellent finish, limit moisture vapor movement through the batting. Humidity can build up in your clothing, even allowing water to condense within the insulation. This can create an uncomfortable microclimate and conductive heat loss.

Valtherm Active Powered by 37.5® Technology uses patented 37.5® active particles permanently embedded at the fiber level capture and release moisture vapor.

The particles capture and use infrared heat from the body to accelerate vapor movement and speed up the conversion of liquid to vapor, significantly increasing drying rates. This means the warmer the user gets, the stronger the driving force to remove moisture – and the more comfortable the garment remains.

Valtherm Active Powered by 37.5® Technology removes the excess heat without sacrificing the insulation value.

Valtherm Active Powered by 37.5® Technology has a CLO value per unit weight of 0,024 clo/(g/m²).

By managing moisture in your microclimate, Valtherm Active Powered by 37.5® Technology allows you to create garments that work in a wider range of situations.

Without overheating caused by humidity buildup or conductive heat loss caused by damp insulation, there is no need to remove layers to cool down or dry off.

Users experience a new level of comfort through a wider range of activity level and temperature fluctuations.

Wadding manufactured according our certified quality management system to ISO 9001 and supplied in high standardized quality.

	Thermal regulation		Active particles naturally derived
	Personal microclimate 37,5% humidity		Moisture management
	Quick dry		Odors trapped / released when washed
	Breathable		Light weight



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SCHEDA TECNICA
TECHNICAL DATA SHEET

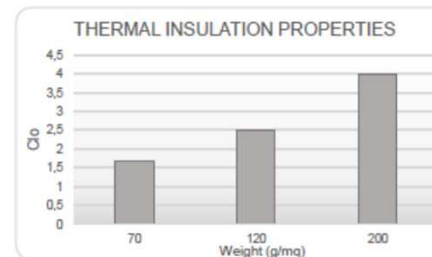


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CARATTERISTICHE TECNICHE TECHNICAL CHARACTERISTICS	UNITA' DI MISURA UNIT	VALORE NOMINALE NOMINAL VALUE
Composizione fibra <i>Fibre composition</i>		100% Fibre Poliestere Resinate <i>100% Resin Bonded Polyester fiber</i>
Colore <i>Colour</i>		Bianco <i>White</i>
Grammature disponibili* <i>Basis Weight*</i>	g/m ²	40->200

* Grammatura = peso netto rotolo/superficie nominale. Tolleranza ± 7,5%
Surface weight = roll net weight/nominal surface. Tolerance ± 7,5%





TDS

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SIMBOLOGIA CONSIGLIATA PER L'ETICHETTATURA *RECOMMENDED SYMBOLS FOR LABELS*



RACCOMANDAZIONI D'USO e LINEE GUIDA *RECOMMENDED USAGE and GUIDELINES*

Date le caratteristiche di morbidezza e sofficità dovute alla particolare tecnologia produttiva adottata, si rende noto che il prodotto è ritenuto a forte rischio di pilling, e pertanto deve essere adeguatamente protetto. Inoltre il prodotto va ancorato al tessuto o alla fodera interna con cuciture a quadrato, rombo o qualsiasi altra forma, fino a 6-8 cm di lato, per migliorarne la stabilità. Per qualsiasi altra tipologia di applicazione è opportuno eseguire prove adeguate sul prodotto.

Considering this product fluffiness and softness, result of an innovative manufacturing process, please make sure that pilling behaviour is tested and corresponds to your needs and applications.

Please consider that this wadding has to be linked to the fabric and to the lining thru stitching whose side can be maximum 6-8 cm (square, diamond or any other stitching pattern), to improve product stability.

Any other kind of application needs to be tested and approved.

FORNITURA ED IMBALLAGGIO *SUPPLY AND PACKAGING*

Rotoli
Rolls

Altezza massima W
Max width 310 cm (-0/+ 2 cm)

Lunghezza massima L variabile in base a grammatura (-0/+ 2%)
Max length L variable according to the surface weight

Imballaggio : Standard / Compresso / Sottovuoto con tubo di cartone e sacco in polietilene
Preferibilmente mettere il rotolo disteso, non in piedi.

Aspettare 24 ore per un completo recupero dopo aver rimosso l'imballaggio sottovuoto.

*Packing: Standard / Compressed / Vacuum Cardboard tube and polyethylene-film bag
Lay flat, do not stand on end.*

Allow 24 hours for recovery after vacuum pack is removed.

Thanks
for your
Attention

