



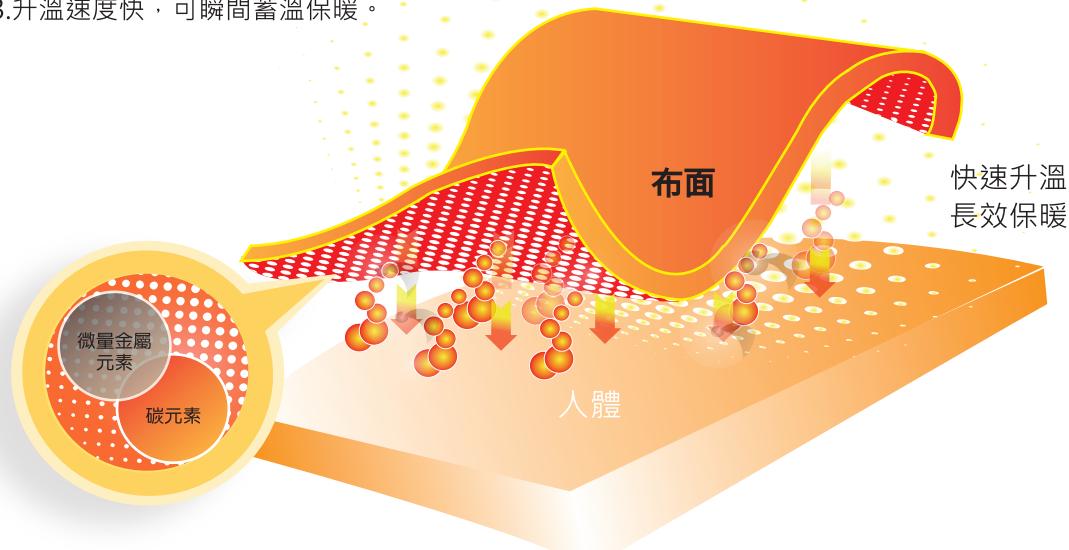
# 光熱龍®

## 新世代科技快熱保暖素材

迎接機能保暖的時代來臨，利用前瞻性的加工製程技術，開發新機能快熱蓄溫保暖布料，將環境能量及人體體溫轉換為熱能，真正達到蓄熱保暖布料機能效果，是最適合嚴寒冬季的保暖科技新素材。

### 光熱龍®快熱保暖素材優勢：

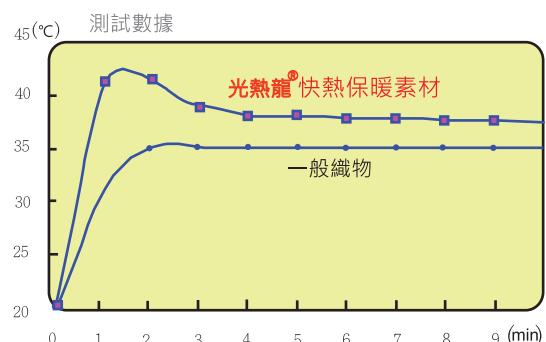
- 1.最新科技素材，升溫效果更快速
- 2.專利微量金屬+碳材料長效型複方快熱處方。
- 3.升溫速度快，可瞬間蓄溫保暖。



### •快熱保暖布料測試法(FTC-RD-041-A):

測試結果

照射時間	一般織物	光熱龍®快熱保暖素材
5 min	35°C	38°C <b>升溫快</b>
15 min	35°C	37.6°C <b>蓄溫保暖效果佳</b>



•環境5°C±2°C

•熱源：遠紅外線燈供應熱能，使測試溫度維持35°C(模擬人體體溫對布料溫度提升的效果)

•升溫速率會因布種不同而有所增減



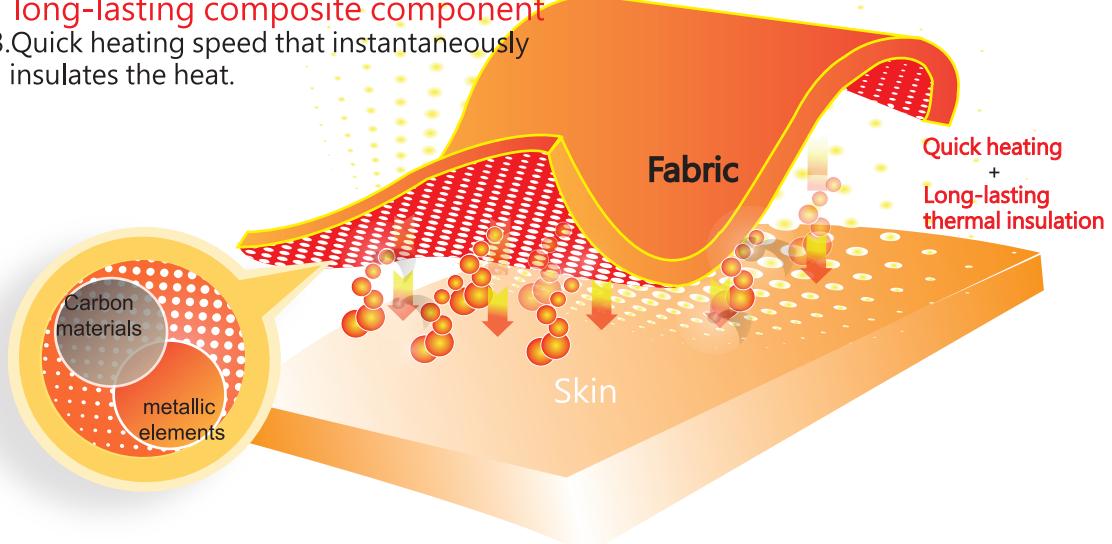
# PERMAWARM®

## New Tech Thermal Insulation Material

To cope with the coming era of functional thermal insulation, the new-generation quick thermal heat-insulation fabric uses topnotch finishing technique to convert environmental energy and body temperature into thermal energy that genuinely achieves the function and effect of thermal-insulation. It is a new high-tech material ideal for thermal insulation in the winter.

Advantages of **PERMAWARM** New Tech Thermal Insulation Material:

1. Advanced new tech version with faster heating effect.
2. Patented trace metal + carbon materials with long-lasting composite component
3. Quick heating speed that instantaneously insulates the heat.



•Thermal Insulation Performance Test(FTC-RD-041-A):

Test Result

Exposure Time	General Fiber Cloth	PERMAWARM®
5 min	35°C	38°C      Quick heating
15 min	35°C	37.6°C      Long-lasting thermal insulation

\*Environment temperature: 5°C ± 2°C

\*Heat Source: Infrared thermal heat supplied to maintain the testing temperature at 35°C  
(A simulation of the effect of human body temperature on the heating process of the fabric)

\*The actual performance should vary based on the construction and component of each product.

