

THERMO-PLUS TECHNOLOGY

Thermo-Plus is Levels certification and guarantee for outstanding insulation and heat retention of the natural warmth of the hands even in the worst climate conditions. Level created a machine to test the gloves in a series of extreme weather conditions. The results, collected in an efficiency index, report the gloves' thermicity values. Thermo-Plus products values aim to be at least 30% higher than standard gloves' ones.

GUARANTEED TO KEEP YOU WARM



Product certified for temperatures up to
-25° C | -13 F



Product certified for temperatures up to
-20° C | -4 F



Product certified for temperatures up to
-15° C | 5 F

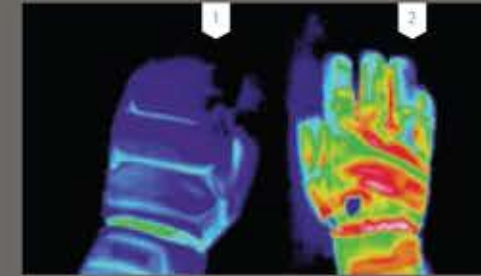


Product certified for temperatures up to
-8° | 17,5 F

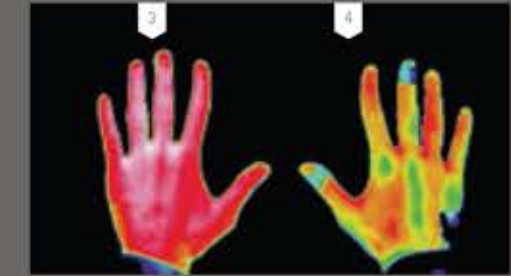
SCIENTIFIC TESTS TO GUARANTEE THE THERMOPLUS CERTIFICATION

The choice of the appropriate material for the construction of the gloves is of fundamental importance in order to achieve ergonomic comfort and high thermal insulation. The thermal insulation and moisture management of the gloves is created through the use of different materials. Such materials have been tested in both a climatic chamber and in outdoor conditions using wireless sensors combined with infrared thermography. The results show substantial differences in terms of thermal comfort between the gloves, proving that Level provides the best thermal comfort for all its products.

In the thermal image #1 no leakage of heat can be seen from the outer surface of the glove (absence of the color red) thanks to its excellent insulation.



After removing the glove, the thermal image #3 shows the hot temperature of the hand (absence of the color blue) thanks to the gloves' insulation.



THERMAL BEHAVIOUR OF THE MATERIALS IN REAL AND SIMULATED SKIING CONDITIONS.

Thermal insulation is one of the key factors for protection against the cold. Since hands tend to have a large surface area compared to their volume and small muscle mass, they are more sensitive to cold exposure in respects to other parts of the human body (Kulane, 2009). It has also been reported that the feeling of cold discomfort in the hands will dominate even if clothing of proper insulation are used on the rest of the body. Hands are most comfortable with a skin temperature of 33°C (91.4°F) and relative humidity next to the skin of about 60%. The feeling of cold starts at temperatures around 25°C (77°F), whilst discomfort from cold is reported to begin with temperatures below 20-21°C (68-69.8°F).

