

EN511:2006



a b c

This standard applies to any gloves to protect the hands against convective and contact cold down to -50°C.

DEFINITION AND REQUIREMENTS

Protection against cold is expressed by a pictogram followed by a series of 3 performance levels, relating to specific protective qualities.

a. Resistance to convective cold (performance level 0-4)

Convective cold resistance: based on the thermal insulation properties of the glove which are obtained by measuring the transfer of cold via convection.

Performance level	Thermal Insulation I_{TR} in m ² K/W
1	$0.10 \leq I_{TR} < 0.15$
2	$0.15 \leq I_{TR} < 0.22$
3	$0.22 \leq I_{TR} < 0.3$
4	$0.30 \leq I_{TR}$

b. Resistance to contact cold (performance level 0-4)

Contact cold resistance: based on the thermal resistance of the glove material when exposed to contact with a cold object.

Performance level	Thermal Resistance R in m ² K/W
1	$0.025 \leq R < 0.050$
2	$0.050 \leq R < 0.100$
3	$0.100 \leq R < 0.150$
4	$0.150 \leq R$

c. Permeability by water (0 or 1)

Water impermeability:

0 = water penetration after 30 minutes of exposure

1 = no water penetration