



## STANDARD EN 511: 2006

Gloves Giving Protection From Cold



### SCOPE

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

### DEFINITION AND REQUIREMENTS

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



The 'cold hazard' pictogram is accompanied by a 3-digit number:

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

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

**c. Permeability by water (0 or 1)**

All gloves must achieve at least EN388 performance level 1 for abrasion and tear.

- **Convective cold resistance:** based on the thermal insulation properties of the glove which are obtained by measuring the transfer of cold via convection.
- **Contact cold resistance:** based on the thermal resistance of the glove material when exposed to contact with a cold object.
- **Water impermeability:** 0 = water penetration after 30 minutes of exposure 1 = no water penetration.