STANDARD EN 407

Gloves giving protection from thermal hazards

a b c d e f

The pictogram gives the evaluation of 6 protections against thermal risks.
Every protection is estimated by a rating from 1 to 4, 4 being the best resistance rating.

a Resistance to flammability

This resistance is based on the time during which the material remains burning and continues after the source of ignition was turned off.

Level 1 ≤20 sec. Level 2 ≤10 sec. Level 3 ≤3 sec. Level 4 ≤2 sec.

b Resistance to contact heat

The glove's material is exposed to temperatures between 100 °C and 500 °C.
15 seconds is the minimum accepted length of time for approval.

Level 1 Manipulation of a part at 100 °C
Level 2 Manipulation of a part at 250 °C
Level 3 Manipulation of a part at 350 °C
Level 4 Manipulation of a part at 500 °C

c Resistance to convective heat

Based on the time during which the glove can delay the transfer of the heat of a flame.
A performance level will be only mentioned if a level 3 or 4 was obtained during the flammability test.

Level 1 ≤4 sec. Level 2 ≤7 sec. Level 3 ≤10 sec. Level 4 ≤18 sec.

d Resistance to radiant heat

Based at the time during which the glove can delay the transfer of heat during an exposure to a radiant source of heat.
A performance level will be only mentioned if a level 3 or 4 was obtained during the flammability test.

Level 1 ≤5 sec. Level 2 ≤30 sec. Level 3 ≤90 sec. Level 4 ≤150 sec.

e Resistance to small splashes of molten metal

Corresponds to the quantity of molten metal required to raise the temperature of the sample to a given threshold.
A performance level will be only mentioned if a level 3 or 4 was obtained during the flammability test.

Level 1 ≤5 sec. Level 2 ≤15 sec. Level 3 ≤25 sec. Level 4 ≤35 sec.

f Resistance to large splashes of molten metal

Corresponds to the weight of molten metal necessary to cause damage to an artificial skin placed directly behind the sample. The test fails if droplets of metal remain stuck on the glove material or if the sample catches fire.

X Means that this performance is not tested

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