

EN407

Protective gloves against thermal risks

Reference Number: EN 407: 1994

Status: European Standard

Scope: This standard specifies the test methods and the general requirements, the classification and the marking of gloves for protection against heat and/or fire (flames, contact heat, convective heat, radiant heat, small metal splashes or large projections of molten metal).

General Requirements:

- Comply with the general requirements for protective gloves (EN420).
- The size of the gloves: according to EN420. The gloves of performance level 3 and 4 have to be constructed to be removed easily in case of emergency.

Mechanical Requirements

To be assessed in accordance with EN388

<u>Property</u>	<u>Minimum Level</u>
Abrasion	1 (100 cycles)
Tear Resistance	1 (10N)

Thermal Requirements

Only the tests relevant for the specified application shall be performed.

- Burning behaviour (according to ISO 6941 modified). The material must not melt or form droplets and the seams must not loosen in the exposed area of the glove.

<u>Performance levels</u>	<u>After-flame time</u>	<u>After-glow time</u>
1	≤ 20 s	no requirement
2	≤ 10 s	≤ 120 s
3	≤ 3 s	≤ 25 s
4	≤ 2 s	≤ 5 s

- Resistance to contact heat (according to EN702)

<u>Performance levels</u>	<u>Contact temperature (°C)</u>
1	100°C
2	250°C
3	350°C
4	500°C

- Resistance to convective heat (according to EN367)

<u>Performance levels</u>	<u>Index of heat transmission HTI (s)</u>
1	≥ 4 s
2	≥ 7 s
3	≥ 10 s
4	≥ 18 s

- Resistance to radiant heat (according to EN366, method B)

<u>Performance levels</u>	<u>Level of heat transfer (t₃: s)</u>
1	≥ 5 s
2	≥ 30 s
3	≥ 90 s
4	≥ 150 s

- Resistance to small metal splashes (according to EN348)

<u>Performance levels</u>	<u>Number of drops</u>
1	≥ 5
2	≥ 15
3	≥ 25
4	≥ 35

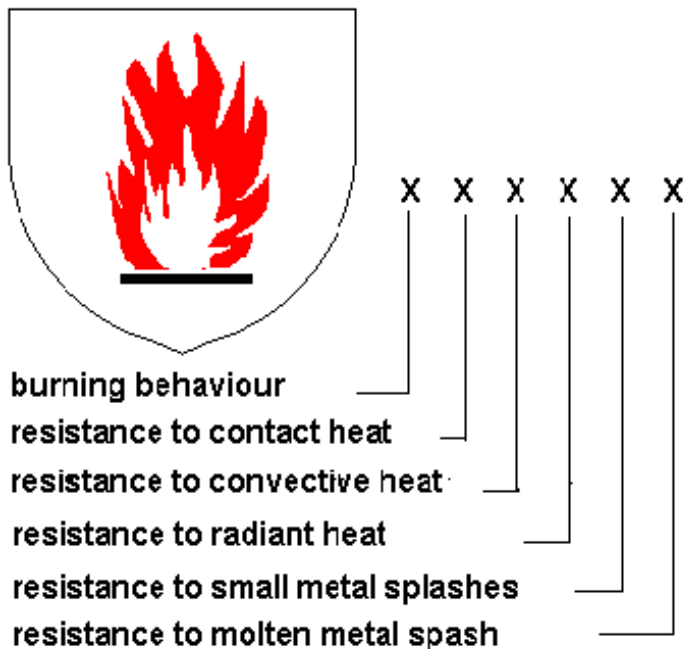
- Resistance to molten metal splash (according to EN373)

<u>Performance levels</u>	<u>Molten iron (g)</u>
1	30 g
2	60 g
3	120 g
4	200 g

Marking

According to EN420. Also see pictograms.

Pictogram



Information for the user

According to EN420.