

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).

CONTENTS

General requirements:

- comply with the general requirements for protective gloves EN 420).
- size of the gloves: according to EN 420.
- 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 EN 388

Property	Minimum level
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.

Performance levels	After-flame time	After-glow time
1	≤ 20 S	no requirement
2	≤ 10 S	≤ 120 S
3	≤ 3 S	≤ 25 S
4	≤ 2 S	≤ 5S

- resistance to contact heat (according to EN 702)

Performance levels	Contact temperature (°C)	Bottom time t_t (S)
1	100°C	15 S
2	250°C	15 S
3	350°C	15 S
4	500°C	15 S

- resistance to convective heat (according to EN 367)

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

- resistance to radiant heat (according to EN 366 - method B)

Performance levels	Level of heat transfer t_3 (s)
1	≥ 5 s
2	≥ 30 s
3	≥ 90 s
4	≥ 150 s

- resistance to small metal splashes (according to EN 348)

Performance levels	Number of drops
1	≥ 5
2	≥ 15
3	≥ 25
4	≥ 35

- resistance to molten metal splash (according to EN 373)

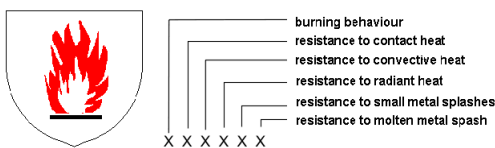
Performance levels	Molten iron (g)
1	30 g
2	60 g
3	120 g
4	200 g

Marking:

According to EN 420

See also pictograms

Pictogram:



Information for the user:

According to EN 420