

EN659

Protective gloves for fire fighters

Reference Number: EN 659: 1996

Status: European Standard

Scope: This standard defines minimum performance requirements and test methods for fire fighters' protective gloves.

Comments: protective gloves for special fire fighting operations, such as these covered by prEN1486, or for interventions involving a contact with oils and chemicals are outside the scope of this standard.

General Requirements

- Fire fighter's protective gloves shall comply with the general requirements of EN420, except for the minimum length as specified:

Size of hand	6	7	8	9	10	11
Glove length (mm)	260	270	280	290	305	315

- When the gloves or parts of them are made from different materials, these materials shall be tested separately.
- Size designation: based on hand size (6-11)(determined by hand circumference and length)
- The gloves shall be compatible with the sleeves of the protective clothing
- Dexterity: performance level 1 based on a practical test, picking up of a small steel rod of 11mm diameter (EN420).

Mechanical Requirements

- According to EN388

<u>Property</u>	<u>Minimum performance level</u>
Abrasion	2 (500 cycli)
Cut resistance	2 (index 2,5)
Tear resistance	2 (25 N)
Puncture resistance	2 (60 N)

Thermal Requirements

<u>Property</u>	<u>Requirement</u>	<u>Standard</u>
Burning behaviour	level 4	EN407 (after flame time ≤ 2s, after glow time ≤ 5s)
Convective heat	level 3 (HTI ≥ 10 s)	EN407
Radiant heat	$t_{2} \geq 15$ s	EN366-20kW/m ²
Contact heat	$t_{2} \geq 10$ st	EN702
Heat resistance	shall not melt, drip	Annex A of lining or ignite

Marking

According to EN420.

Each glove shall be marked with the number of this standard (EN 659).

Information for the User

According to EN420.

Pictogram

