International Standard

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PPE for firefighters — Test methods and requirements for PPE used by firefighters who are at risk of exposure to high levels of heat and/or flame while fighting fires occurring in structures —

Part 6: Footwear

Équipement de protection individuelle pour pompiers — Méthodes d'essai et exigences pour les équipements de protection individuelle utilisés par les pompiers qui risquent d'être exposés à des niveaux élevés de chaleur et/ou de flamme lorsqu'ils combattent des incendies dans des structures —

Partie 6: Chaussures

Reference number
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Foreword

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This document was prepared by Technical Committee ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 14, *Firefighters' personal equipment*.

This second edition of ISO 11999-6 cancels and replaces the first edition (ISO 11999-6:2016), which has been technically revised.

The main changes are as follows:

— Level A1 and A2 deleted to provide a single level of performance;

— insertion of updated ISO 20345:2021/Amd 1:2024 references;

— references to ISO 20344:2011 and ISO 20345:2011 have been deleted;

— chemical resistant footwear requirements and method updated.

— flame resistance requirements and method updated.

— insulation against Heat requirements updated.

— Tables 2 and 3 have been updated.

A list of all parts in the ISO 11999 series can be found on the ISO website.

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PPE for firefighters — Test methods and requirements for PPE used by firefighters who are at risk of exposure to high levels of heat and/or flame while fighting fires occurring in structures —

Part 6: **Footwear**

1 Scope

This document specifies the minimum design and performance requirements for footwear as part of personal protective equipment [PPE] to be used by firefighters, primarily but not solely to protect against flame and high thermal loads while fighting fires occurring in structures.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 868, *Plastics and ebonite — Determination of indentation hardness by means of a durometer (Shore hardness)*

ISO 6942:2022, *Protective clothing — Protection against heat and fire — Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat*

ISO 15025, *Protective clothing — Protection against flame — Method of test for limited flame spread*

ISO 11999-1, *PPE for firefighters — Test methods and requirements for PPE used by firefighters who are at risk of exposure to high levels of heat and/or flame while fighting fires occurring in structures — Part 1: General*

ISO 20344:2021, *Personal protective equipment — Test methods for footwear*

ISO 20344:2021/Amd 1:2024, *Personal protective equipment — Test methods for footwear — Amendment 1*

ISO 20345:2021, *Personal protective equipment — Safety footwear*

ISO 20345:2021/Amd 1:2024, *Personal protective equipment — Safety footwear — Amendment 1*

EN 13832-1:2018, *Footwear protecting against chemicals — Part 1: Terminology and test methods*

EN 13832-3:2018, *Footwear protecting against chemicals — Part 3: Requirements for footwear highly resistant to chemicals under laboratory conditions*

ISO 13994, *Clothing for protection against liquid chemicals — Determination of the resistance of protective clothing materials to penetration by liquids under pressure*

EN 50321-1:2018, *Live Working – Footwear for Electrical protection – Insulating footwear and overboots*

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