

# ISO 18639-6:2018-01 (E)

## PPE ensembles for firefighters undertaking specific rescue activities - Part 6: Footwear

---

Contents	Page
Foreword .....	iv
Introduction .....	v
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	2
4 Classification and designs .....	2
5 Sampling and conditioning .....	4
5.1 Sampling .....	4
5.2 Conditioning .....	4
6 Performance requirements .....	4
6.1 General .....	4
6.2 Summary of requirements and classification of specific rescue activities .....	4
6.3 Thermal requirements .....	6
6.3.1 Insulation against heat .....	6
6.3.2 Flame resistance .....	7
6.4 Mechanical protection requirements .....	8
6.4.1 Cut resistance by a hand-held chainsaw .....	8
6.4.2 Metatarsal Protection .....	8
6.4.3 Ankle Protection .....	8
6.5 Environmental protection requirements .....	8
6.5.1 Water resistance .....	8
6.5.2 Electrical properties .....	8
6.6 Visibility requirements .....	8
6.7 Biological and chemical requirements .....	9
6.7.1 Liquid penetration resistance .....	9
7 Marking .....	9
8 Information to be supplied .....	9
8.1 General .....	9
8.2 Antistatic footwear .....	10
8.3 Electrically insulating footwear .....	11
8.4 Insocks .....	11
8.5 Information regarding penetration resistant insert .....	11
Annex A (normative) Assessment of the footwear by the laboratory during testing for resistance to heat and flame .....	12
Annex B (informative) Assessment of the footwear by the wearer .....	13
Annex C (informative) The following drawing can be provided with the user information to assist in assessing the performance of firefighter footwear .....	14
Annex D (informative) Slip resistance .....	15
Bibliography .....	18