

ISO 16073:2011-02 (E)

Wildland firefighting personal protective equipment - Requirements and test methods

Contents		Page
Foreword	v	
Introduction	vi	
1 Scope	1	
2 Normative references	1	
3 Terms and definitions	3	
4 Clothing	11	
4.1 General information	11	
4.2 Sampling	12	
4.3 Pretreatment	12	
4.4 Exposure surface	12	
4.5 Thermal requirements	12	
4.6 Mechanical requirements	14	
4.7 Ergonomic and comfort requirements	15	
4.8 Dimensional change after washing and/or dry cleaning	15	
4.9 Retroreflective/fluorescent performance	15	
4.10 Optional clothing testing	15	
5 Gloves	16	
5.1 Design requirements	16	
5.2 Sampling	18	
5.3 Pretreatments	18	
5.4 Preconditioning	19	
5.5 Performance requirements	19	
5.6 Mechanical requirements	21	
5.7 Ergonomic requirements	22	
6 Footwear	22	
7 Helmets	23	
7.1 Function and dimensions	23	
7.2 Performance requirements	24	
7.3 Test requirements	25	
7.4 Headforms	26	
7.5 Shock absorption test	26	
7.6 Penetration test	27	
7.7 Flammability test	27	
7.8 Electrical insulation test	28	
7.9 Lateral rigidity test	28	
8 Eye protectors	29	
8.1 General	29	
8.2 Design and manufacturing requirements	29	
8.3 Basic, particular and optional requirements for non-mesh eye protectors	29	
8.4 Mesh eye and face protectors	35	
8.5 Allocation of requirements, test schedules and application	37	
9 Hearing protectors	41	

9.1	General	41
9.2	Earmuff requirements	41
9.3	Performance	42
9.4	Earplug requirements	44
10	Fire hood	46
10.1	General requirements	46
10.2	Pretreatment	46
10.3	Performance requirements	47
11	Respiratory protection	48
12	Compatibility	48
12.1	General	48
12.2	Sizing	48
12.3	Compatibility for helmet, fire hood, clothing and eyewear interface	49
12.4	Compatibility for glove and clothing interface	49
12.5	Compatibility for coat and trouser interface	49
12.6	Compatibility for footwear and trouser interface	50
13	Marking and labelling	50
13.1	General marking requirements	50
13.2	Label durability and legibility	50
13.3	Compliance marking requirements	50
13.4	Additional marking requirements	51
14	Manufacturer's information	55
14.1	General	55
14.2	Manikin testing information	56
	Annex A (informative) Compatibility	58
	Annex B (informative) Guidelines for personal protective equipment design	59
	Annex C (normative) Grip test -- Gloves	61
	Annex D (normative) Thermal stability of helmets and eyewear at elevated temperatures	63
	Annex E (informative) Recommended method of construction of wooden headforms	65
	Annex F (informative) Recommendations for the materials and construction of helmets	68
	Annex G (normative) Ease of donning and doffing test	69
	Bibliography	71