

ISO/TR 21808:2024-01 (E)

Best practices on the selection and use of personal protective equipment (PPE) designed to provide protection for firefighters

Contents		Page
Foreword		v
Introduction		vi
1 Scope		1
2 Normative references		1
3 Terms and definitions		1
4 General		3
4.1 Responsibility of procedure development.....		3
4.2 Ergonomics.....		3
4.3 Compatibility.....		4
4.3.1 General.....		4
4.3.2 Physical compatibility.....		5
4.3.3 Thermal protection compatibility.....		5
4.3.4 Chemical protection compatibility.....		6
5 Selection		6
5.1 General.....		6
5.2 Selection for PPE procurement.....		6
5.2.1 Identification of activity scope.....		6
5.2.2 Risk assessment for procurement.....		7
5.2.3 Identification of minimum protection levels that fit to the scope of activities.....		7
5.2.4 Collect information on PPE that can be procured.....		8
5.2.5 Collection of information on compatibility.....		8
5.3 Evaluation by trial fitting for selection.....		9
5.4 Provision of information for purchase by PPE manufacturers.....		10
6 Batch testing		10
6.1 General.....		10
6.2 Product certification.....		10
7 Use		10
7.1 Start using PPE.....		10
7.1.1 Training before use.....		10
7.1.2 Record keeping.....		11
7.2 Use in duty.....		11
7.2.1 Routine inspection.....		11
7.2.2 Risk assessment for the scope of activities at the time of mobilization.....		12
7.2.3 Identification of protection required during the activity.....		12
7.2.4 Selection of PPE.....		12
7.2.5 Other consideration.....		12
7.3 Care and maintenance of PPE after use.....		12
7.4 Record of use.....		12
7.5 Storage.....		13
8 Manufacturer information		13
8.1 General.....		13
8.2 Manufacturer information for selection and use.....		14
Annex A (informative) Risk assessment		15
Annex B (informative) Practical performance tests		24

Annex C (informative) Examples of relationship between type of activity, the heat/flame hazard linked to the activity and clothing to be chosen for protection based on the existing product standards	31
Annex D (informative) Performance levels relating to clothing designed to provide protection from heat and flame	34
Annex E (informative) Description of burn injury risks	54
Annex F (informative) Best practices on some of the items that may be addressed in labelling, subject to the required use of the PPE	56
Bibliography	57