

ICS 13.340.10
CCS C73



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 46309-2025

**Protective clothing - Selection, use and maintenance of
protective clothing against flame and heat**

防护服装 阻燃和热防护服的选择、使用和维护

Issued on: August 29, 2025

Implemented on: September 1, 2026

Issued by: Ministry of Emergency Management

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4. Selection of flame retardant and thermal protective clothing	2
5 Use of flame retardant and thermal protective clothing	5
15 Reference	22

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed and coordinated by the Ministry of Emergency Management of the People's Republic of China.

Personal protective equipment, also known as labor protection equipment, is the "last line of defense" to protect the lives and safety of hundreds of millions of workers. Choosing appropriate personal protective equipment and ensuring that it is worn and used correctly is the key to ensuring national safety production and emergency management in my country. An important means of work. At present, my country has formulated a series of standards for the mandatory use of personal protective equipment, which includes Article 40 of the Occupational Safety and Health Law of the People's Republic of China. GB 39800.1 "Specifications for the use of personal protective equipment Part

1. General Principles" and other series of standards aim to confirm Establish overall requirements for personal protective equipment for employers, and guide employers to implement the "Regulations on Personal Protective Equipment of the General Administration of Market Regulation and the Ministry of Housing and Urban-Rural Development" The Notice of the General Office of the Ministry of Emergency Management on Further Strengthening the Supervision and Management of Special Labor Protection Articles Such as Safety Helmets The regulations on the supervision and management of animal protective equipment should be implemented to ensure that there are specifications for equipment, standards for testing, certification for products, and grasps for management, and gradually improve individual Protective equipment standard system. Flame retardant and thermal protective clothing mainly includes flame retardant clothing, welding clothing,

molten metal splash protective clothing, arc protection clothing, heat insulation clothing, etc., which are used to protect workers. Protecting workers from flames and heat hazards is a key type of personal protection that plays an important role in protecting workers in various industries. Different types of flames and heat damage have different effects on the human body and different ways of injury, and individual protection needs are different. It is very easy to cause misselection and misuse. Problems in selection, use, and maintenance such as improper use and improper maintenance affect the effective protection of workers and cause injuries. Technical requirements for the selection, use and maintenance of flame retardant and thermal protective clothing to match GB 39800 (all parts) and flame retardant and thermal protective clothing series products Standards will be established to improve the level of personal protective equipment work of employers. Selection of flame retardant and thermal protective clothing, Use and maintenance

1 Scope

GB 46309-2025 is the Chinese national standard on protective clothing - selection, use and maintenance of protective clothing against flame and heat, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 29 August 2025 by the Ministry of Emergency Management, and has been in force since 1 September 2026. Classification: ICS 13.340.10, CCS C73. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies requirements for employers for the selection, use, and maintenance of flame retardant and thermal protective clothing. This document applies to the selection, use and maintenance management of flame retardant and thermal protective clothing by employers.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB 8965.1 Protective clothing flame retardant clothing

GB 8965.2 Protective clothing welding clothing

GB 8965.3 Protective clothing for protection against molten metal splash

GB 8965.4 Protective clothing Arc flash protection clothing

GB 38453 Protective clothing - thermal insulation clothing

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 selection The process of determining the type of protective clothing, protection level, and structural adaptability of clothing required for workers.

3.2 Use On the basis of fully considering the protective characteristics, applicable scope of work and protective function limitations of protective clothing, it is important to wear protective clothing correctly. The process of workers taking protective measures.

3.3 Maintenance Work performed to maintain the protective performance of protective clothing and avoid damage to the performance of protective clothing.

Note. Usually includes cleaning, decontamination, storage, inspection, maintenance, repair and other links.

3.4 Wearing and using personal protective equipment such as protective clothing to prevent workers from coming into contact with open flames, heat sources or high-temperature materials at the work site The process of being harmed by other hazardous factors.

Note. This includes but is not limited to protection against hazardous factors such as open flames, short-term flame flashover, flying molten metal, arc heat release, high-temperature objects and high-temperature heat sources.