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

GB 31420-2025

Replacing GB/T 31420-2015

**Requirements for toxic, hazardous and restricted substances in
personal protective equipment**

个体防护装备有毒有害及限量物质要求

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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. This document replaces GB/T 31420-2015 "Test Methods for Toxic and Hazardous Substances in Flame Retardant Clothing", GB/T 31419-2015 "Fire Escape Surfaces GB/T 31009-2020 "Requirements and test methods for limited substances in foot protection shoes (boots)". The document is based on GB/T 31420-2015, integrating the contents of GB/T 31419-2015 and GB/T 31009-2020, and adding Compared with GB/T 31420-2015, in addition to structural adjustments and editorial changes, the toxic, hazardous and limited substances requirements for other protective equipment products have been revised. In addition to the dynamic, the main technical changes are as follows:

- Changed the scope of the standard (see Chapter 1, Chapter 1 of GB/T 31420-2015);
 - Added terms and definitions (see Chapter 3);
 - Added requirements and tests for toxic, hazardous and limited substances (see Chapter 4);
 - Deleted the test methods for hexavalent chromium, chlorophenol, nickel content and chemical substances in high temperature flue gas (see GB/T 31420-2015 Chapter 3 of).
- 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. The previous versions of the documents replaced by this document are as follows:

- GB/T 31009, first issued in.2014, first revised in 2020;

---GB/T 31419, first issued in.2015;

---GB/T 31420, first issued in.2015. Requirements for toxic, hazardous and limited substances in personal protective equipment

1 Scope

GB 31420-2025 is the Chinese national standard on requirements for toxic, hazardous and restricted substances in personal protective equipment, 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 30 June 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 2026. Classification: ICS 13.340.01, 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 the requirements for toxic, hazardous and restricted substances in personal protective equipment and describes the test methods. This document applies to head protection, eye and face protection, hearing protection, respiratory protection, protective clothing, hand protection, foot protection and fall protection Personal protective equipment such as guards.

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/T 12903 Terminology of Personal Protective Equipment

GB/T 35611-2024 Green Product Evaluation Textile Products

3 Terms and Definitions

The terms and definitions defined in GB/T 12903 and the following apply to this document.

3.1 Chemicals that have inherently hazardous properties and may cause harm to health or the environment.

3.2 restricted substances Items that are permitted by relevant laws and regulations but have restrictions on their content or conditions of use.

4.1 Basic Requirements

4.1.1 Toxic, hazardous and restricted substances in personal protective equipment shall comply with the requirements for protecting the personal safety and health of employees.

4.1.2 The levels of toxic, hazardous and restricted substances in personal protective equipment should be within the safe limits allowed for the vast majority of employees.

4.1.3 The materials used in personal protective equipment should comply with the requirements for toxic and hazardous substances and meet the functional requirements of personal protective equipment. The overall protective effect of personal protective equipment should not be reduced.

4.2 Security Requirements

4.2.1 Head protection equipment Toxic, hazardous and restricted substances in head protective equipment should comply with the requirements of Table 1.