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

GB 30041-2025

Replacing GB/T 30041-2013

Selection, use and maintenance of head protection equipments

头部防护装备的选择、使用和维护

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1 Scope

GB 30041-2025 is the Chinese national standard on selection, use and maintenance of head protection equipments, 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 13.340.20, 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 the selection, use and maintenance, as well as the rejection judgment of head protective equipment. This document applies to head protective equipment used in industrial production and emergency rescue operations. This document does not apply to head protective equipment used in firefighting operations, sports or commuting.

2 Normative References

The contents of the following documents constitute indispensable clauses of this document through the normative references in the text. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references

without a specified date, the latest version (including all the modifications) is applicable to this document.

GB 2811-2019 Head Protection - Safety Helmets

GB 3609.1 Eye and Face Protection - Welding Protection - Part

3 Terms and Definitions

The following terms and definitions are applicable to this document.

3.1 head protective equipment A generic term for equipment that prevents or mitigates injuries to the human head caused by physical, chemical and other harmful factors during operations, such as blows, collisions, burns, electric shocks, etc.

3.2 industrial safety helmet Headwear that protects the head from falling objects and other specific factors. NOTE. it consists of a helmet shell, a lining, a chin strap and accessories. [Source: GB 2811-2019, 3.1]

4.1 General Rules

4.1.1 Head protective equipment shall comply with national and industry standards. The main national and industry standards for head protective equipment are listed in Table 1.

4.1.2 All components of head protective equipment shall be intact and free of abnormalities.

4.1.3 When selecting head protective equipment, employers shall consider both safety and comfort.

4.1.4 Head protective equipment shall be selected based on category, function, style, color and material. The selection procedures shall comply with Appendix A.

4.1.5 Employers shall conduct an assessment of the category of operation and potential injuries resulting from accidents in accordance with Appendix B of GB 39800.1-2020. The selected head protective equipment shall be compatible with the workplace environment and hazard factors.

4.2 Selection of the Category of Head Protective Equipment

4.2.1 In workplaces where there is a risk of head injury from moving loads, such as falling or thrown objects, industrial safety helmets shall be selected.

4.2.2 In workplaces where there is only a risk of injury from collisions between the head and fixed rigid objects and / or structures, anti-collision helmets shall be selected.

4.2.3 To prevent static charge accumulation on the helmets in workplaces, occupational antistatic headwear shall be selected.

4.2.4 When there is a risk of head injury from collisions, impacts, burns and electric shocks

during rescue and related activities, rescue helmets shall be selected.

4.2.5 The selection of the category of head protective equipment for each typical industry shall comply with the requirements of the relevant industry configuration standards. The configuration standards for typical industries shall be implemented in accordance with Table 2.

4.3.8 In workplaces where there is a possibility of contact with a molten metal, head protective equipment with molten metal splash resistance property shall be selected.

4.4 Selection of Style of Head Protective Equipment

4.4.1 In workplaces where water splashing, debris splashing, direct sunlight or strong light to the eyes may occur, head protective equipment with a visor and brim shall be selected.

4.4.2 When welding is performed and head protective equipment is required, the head protective equipment selected by the operator shall be compatible with the welding protective equipment being worn. When wearing head protective equipment integrated with welding protection, it shall also comply with the relevant provisions of GB 3609.1.

4.4.3 When it is determined in accordance with the provisions of GB 23466 that hearing protective equipment is required in workplaces, the head protective equipment selected by the operator shall be compatible with the hearing protective equipment used in conjunction with it. When wearing head protective equipment integrated with hearing protection, it shall also comply with the requirements of GB 31422.2.

4.4.4 When eye and face protection is also required in workplaces, the head protective equipment selected by the operator shall be compatible with the personal eye protective equipment worn. When wearing head protective equipment integrated with eye and face protection, it shall also comply with the requirements of GB 14866.

4.4.5 The style of head protective equipment selected by the employer shall be compatible with other equipment to ensure the effectiveness of the combined protection and shall not result in any additional risks.

4.5 Selection of the Color of Head Protective Equipment

4.5.1 The color of head protective equipment shall comply with the management requirements of relevant industries.

4.5.2 The selection of the color of head protective equipment shall be carefully considered from the perspectives of safety, as well as the physiological and psychological effects and associations of color.

4.5.3 In workplaces with insufficient light, head protective equipment with bright colors shall be selected.

4.5.4 In workplaces with a low visibility, head protective equipment with a significant color difference from the ambient light shall be selected, or reflective strips meeting the requirements shall be added on the head protective equipment.

4.6 Selection of the Material of Head Protective Equipment The material selected for head protective equipment shall not conflict with the operating environment. For specific shell material characteristics and applicable scenarios, please refer to Appendix B.

5.1 General Rules

5.1.1 Employers shall configure and manage head protective equipment for all personnel entering the workplaces, including dispatched workers, temporary employees, interns, and outsiders permitted to enter the workplaces.

5.1.2 Employers shall inspect and accept head protective equipment before they are put in storage to ensure compliance with national or industry standards and maintain documentation demonstrating compliance with national standards.

5.2 Use of Head Protective Equipment

5.2.1 Head protective equipment shall be used in accordance with the product instructions and shall not exceed the manufacturer's specified range and conditions of use.

5.2.2 Before use, inspect the head protective equipment for any appearance defects and ensure that all components are intact and free of any abnormalities. Accessories shall not be removed from or added to a helmet at will, as this may affect its original protective performance.

5.2.3 When using head protective equipment, properly and securely wear it. For head protective equipment equipped with a chin strap, tighten the chin strap to prevent it from accidentally falling off during use.

5.2.4 Users shall not drill holes on head protective equipment without authorization. Sharp objects, for example, knives, shall not be used to scratch or drill head protective equipment.

5.2.5 Users shall not apply paint, coatings, gasoline or solvents, etc. to the outer shell of head protective equipment without authorization.

5.2.6 Head protective equipment shall not be randomly impacted, squeezed, or used for any purpose other than wearing it, for example, sitting on or hitting hard objects.

5.2.7 During the validity period of head protective equipment, users shall ensure that permanent marking is complete and legible.

5.2.8 Anti-static head protective equipment shall be used in conjunction with anti-static clothing, anti-static shoes, and other protective equipment. The protective equipment worn shall comply with anti-static regulations.