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CCS C73



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

GB 38304-2025

Replacing GB/T 38304-2019

Hand protection - Protective gloves against cold

手部防护 防寒手套

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 38304-2019 "Hand Protection Gloves for Cold Weather". Compared with GB/T 38304-2019, the only changes are structural adjustments. Aside from editorial changes, the main technical changes are as follows:

---The scope of application has been changed (see Chapter 1, Chapter 1 of the.2019 edition);

---The requirements for convection cooling and contact cooling of gloves have been changed (see 4.1,.2019 version 4.1);

---The test methods for abrasion resistance, tear resistance, and water resistance have been revised (see 5.2.1, 5.2.2, and 5.4;

5.2.2 in the.2019 version). and 5.4);

---The test location and temperature requirements for flexural destructive testing have been changed (see

5.3 and Appendix A,

5.3 in the.2019 edition);

---The test location for low-temperature bending performance has been changed (see

5.5 and Appendix B,

5.5 in the.2019 edition);

---The test location for convection cooling has been changed (see 5.6 and Appendix C,

1 Scope

GB 38304-2025 is the Chinese national standard on hand protection - protective gloves against cold, 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 13.340.40, 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 technical requirements, markings, and manufacturer-provided information for protective cold-weather gloves (hereinafter referred to as "gloves"), and describes the testing... Try different methods. This document applies to gloves designed to protect against low-temperature injuries in climates or work activities with temperatures as low as -50°C. This document does not apply to gloves with heating functions.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 10294 Determination of steady-state thermal resistance and related properties of thermal insulation materials - Protective hot plate method

GB/T 12586-2003 Determination of the resistance to flexural breakdown of rubber or plastic coated fabrics

GB/T 18426 Low-temperature bending test of rubber or plastic coated fabrics

GB 24541-2022 Hand Protection - Protective Gloves Against Mechanical Hazards

GB 42298 General Technical Specification for Hand Protection XF7-2004 Firefighting Gloves

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Convection cold In convective heat transfer, the ability of gloves to resist heat loss from the hands.

Note. Expressed using convective thermal resistance.

3.2 Contact cold In heat conduction, gloves have the ability to prevent heat transfer.

Note. Represented by contact thermal resistance.

4 Technical Requirements

4.1 General Rules The gloves shall meet the requirements given in Table 1, wherein at least one of the requirements for convection cooling and contact cooling shall be met. Table

1 Glove Requirements Gloves required for use at temperatures above -30°C; gloves suitable for use at temperatures between -50°C and -30°C. 4.2 - - 4.3 - - 4.4 4.5 - - 4.6 - - 4.7 - - 4.8 - -

Note 1."-" indicates that the requirements should be met.

Note 2."" indicates that the gloves should meet the requirements when they have a coating material.

Note 3."-" indicates no requirement.

4.2 Basic Requirements It should comply with the relevant requirements specified in GB 42298.

4.3 Mechanical Properties

4.3.1 Wear resistance When tested according to the method specified in 5.2.1, the abrasion resistance should at least meet the requirements of Grade 1 shown in Table 2.(Based on the different grades of convection cooling and contact cooling...) Similarly, the minimum abrasion resistance level requirements will differ, see

4.7 and 4.8. Table

2 Abrasion Resistance Rating Performance level 1, 2, 3,