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

GB 24541-2022

Replacing GB 24541-2009

Hand protection - Protective gloves against mechanical risks

手部防护 机械危害防护手套

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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. Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents. This document replaces GB 24541-2009 "Protective gloves for hand protection against mechanical hazards". Compared with GB 24541-2009, except for structural adjustment In addition to rectification and editorial changes, the main technical changes are as follows:

- a) The scope of application of the document has been changed (see Chapter 1, Chapter 1 of the.2009 edition);
- b) Change and add some terms and definitions (see 3.1, 3.2, 3.4, 3.1, 3.3 of the.2009 edition);
- c) Deleted some terms and definitions (see 3.2 of the.2009 edition);
- d) Add the cutting resistance level requirements based on the straight knife test method in the general protection requirements (see 4.1);
- e) Added impact protection requirements (see 4.2);
- f) Changed the requirements for consumables in the abrasion resistance test method (see 6.1.1, 5.2.2 of the.2009 edition);
- g) Added the requirements for the wear resistance test report (see 6.1.5);
- h) Changed the requirements for canvas in cut resistance (disc knife test method) (see 6.2.4,

5.3.5 of the.2009 edition);

1 Scope

GB 24541-2022 is the Chinese national standard on hand protection - protective gloves against mechanical risks, 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 December 2022 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 January 2024. 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, sampling and environment, marking, and the manufacturer's instructions for use of protective gloves against mechanical hazards. Necessary information, describes the test methods for gloves for protection against mechanical hazards. This document applies to gloves that provide protection against mechanical hazards of abrasion, cutting, tearing, puncture or impact.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 21196.1-2007 Textiles - Determination of Abrasion Resistance of Fabrics by Martindale Method - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Gloves intended to protect against at least one risk of mechanical injury from abrasion, cutting, tearing, or puncturing.

3.2 Gloves series gloveseries A category that has the same design or uses the same material from the palm part to the wrist part, differing only in size, length, left and right hands, and color Gloves.

3.3 arm arm The part of the body between the wrist and shoulder.

3.4 Friction times numberofrubs The number of revolutions of the outer drive wheel of the

Martindale Abrasion Tester.

Note. The two outer driving wheels of the Martindale Abrasion Tester rotate 16 times and the inner driving wheel rotates 15 times, and their motion tracks form a complete Li Sharu graphics.

4 Technical Requirements

4.1 General protection requirements The protective gloves used to implement this document should first meet the applicable requirements in GB 42298-2022. The abrasion resistance, tear resistance and puncture resistance of protective gloves against mechanical hazards shall at least meet the minimum requirements listed in Table 1.