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Replacing GB 25038-2010, Partly replacing GB 21536-2008 & GB 25037-2010

General safety requirements for footwear

鞋类通用安全要求

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Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020 *Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents*.

This document replaces GB 25038-2010 *Rubber shoes healthy and safe specification* and integrates the mandatory contents of GB 21536-2008 *Athletic shoes* and GB 25037-2010 *Industrial rubber boots*. Compared with GB 25038-2010, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) The scope of the Standard is changed (see Chapter 1; see Chapter 1 of the 2010 edition);
- b) The requirements and test methods for "nail tips and broken needles" are added (see 4.1 and 5.1);
- c) The requirements and test methods for "hexavalent chromium" are added (see 4.2 and 5.2);
- d) The requirements and test methods for "pH value" are deleted (see Chapter 5 and 6.1 of the 2010 edition);
- e) The requirements and test methods for "free formaldehyde" are changed (see 4.2 and 5.4; see Chapter 5 and 6.2 of the 2010 edition);
- f) The requirements and test methods for "heavy metals that may be extracted" are deleted (see Chapter 5 and 6.3 of the 2010 edition);
- g) The requirements and test methods for "dyes that may decompose carcinogenic aromatic amines" are changed (see 4.2 and 5.3; see Chapter 5 and 6.4 of the 2010 edition);
- h) The requirements and test methods for "dimethyl fumarate" are added (see 4.2 and 5.5);
- i) The requirements and test methods for "chlorophenols" in leather and fur are added (see 4.2 and 5.6);
- j) The requirements and test methods for "phthalates" are added (see 4.2 and 5.7);
- k) The requirements and test methods for "short-chain chlorinated paraffins" are added (see 4.2 and 5.8);
- l) The requirements and test methods for "N-nitrosamines" are deleted (see Chapter 5 and 6.6 of the 2010 edition);

General safety requirements for footwear

1 Scope

This document defines the terms and definitions related to footwear, stipulates the technical requirements and judgments for the general safety of footwear, and describes the corresponding test methods.

This document applies to footwear products made of various materials.

This document does not apply to protective shoes (boots), as well as footwear worn by children 14 years old and below.

2 Normative references

The provisions of the following documents constitute the essential clauses of this document through normative references in this text. Among them, for referenced documents with dates, only the versions corresponding to the dates are applicable to this document; for referenced documents without dates, the latest versions (including all amendments) are applicable to this document.

GB/T 2703 Footwear - Vocabulary

GB/T 2912.1 Textiles - Determination of formaldehyde - Part 1: Free and hydrolyzed formaldehyde (water extraction method)

GB/T 17592 Textiles - Determination of the banned azo colourants

GB/T 18414.1 Textiles - Determination of the content of chlorinated phenols - Part 1: Gas chromatography/mass spectrography

GB/T 19941.1 Leather and fur - Determination of formaldehyde content - Part 1: High performance liquid chromatography method

GB/T 19941.2 Leather and fur - Determination of formaldehyde content - Part 2: Colorimetric method

GB/T 19942 Leather and fur - Chemical tests - Determination of banned azo colorants

GB/T 22807 Leather and fur - Chemical tests - Determination of chromium(VI) content: Colorimetric method

GB/T 22808 Leather and fur - Chemical tests - Determination of chlorinated phenols content

GB/T 26713 Footwear - Chemical tests - Determination of dimethyl fumarate (DMF)

GB/T 32440.1 Footwear - Chemical tests - Determination of phthalate - Part 1: Solvent extraction

GB/T 38402 Leather and fur - Chemical tests - Determination of chromium(VI) content: Chromatographic method

GB/T 38405 Leather and fur - Chemical tests - Determination of short-chain chlorinated paraffins

GB/T 40263 Textiles - Determination of short chain chlorinated paraffins

SN/T 3814 Determination of short chain chloroparaffin in rubber and plastic products - Gas chromatography tandem mass spectrometry (GC-MS/MS) method

3 Terms and definitions

The terms and definitions defined in GB/T 2703 and the following apply to this document.

3.1 accessible

An articulated accessible probe is used to reach the part or component to be tested on the shoe; if any part before the shaft shoulder can touch the part or component on the shoe, that is accessible.

[Source: GB 6675.2-2014, 5.7.1, modified]

4 Technical requirements

4.1 Requirements for nail tip and broken needles

4.1.1 There shall be no nail tips inside the shoe. There shall be no nail tips outside the shoe unless there are special style and functional requirements.

4.1.2 There shall be no broken needles inside or outside the shoe.

4.2 Chemical substance limit requirements

The chemical substance limit requirements are shown in Table 1.

5.1.1 Check for nail tips by visual inspection and feel.

5.1.2 Check for broken needles using a metal detector and/or by visual inspection or hand feel.

5.2 Hexavalent chromium

Different samples shall be tested separately according to GB/T 22807 or GB/T 38402. In case of any dispute, the test results according to GB/T 38402 shall prevail.

5.3 Dyes that may decompose carcinogenic aromatic amine

5.3.1 Different samples shall be tested separately. If the lining and upper cannot be separated, they shall be tested together according to the test method for the lining material. For samples with other materials attached to the back, the other materials attached to the back shall be completely peeled off before testing. If it is really difficult to remove, the situation shall be noted in the report.

5.3.2 Textiles, artificial leather and synthetic leather shall be inspected in accordance with GB/T 17592; leather and fur shall be inspected in accordance with GB/T 19942.

5.4 Formaldehyde

5.4.1 Sample preparation is the same as in 5.3.1.

5.4.2 Textiles, artificial leather and synthetic leather shall be inspected in accordance with GB/T 2912.1. Leather and fur shall be inspected in accordance with GB/T 19941.1 or GB/T 19941.2. In case of any dispute, the test result according to GB/T 19941.1 shall prevail.

5.5 Dimethyl fumarate

Different samples shall be tested separately according to GB/T 26713.

5.6 Chlorophenol

5.6.1 Sample preparation is the same as in 5.3.1.

5.6.2 Textiles, artificial leather and synthetic leather shall be inspected in accordance with GB/T 18414.1; leather and fur shall be inspected in accordance with GB/T 22808.

5.7 Phthalates

Different samples shall be tested separately according to GB/T 32440.1. For samples with other materials attached to the back, the other materials attached to the back shall be completely peeled off before testing. If it is really difficult to remove, the situation shall be noted in the report.

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Accountable person and shareholder: Wayne Zheng

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Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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