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GB/T 15107-2013

Replacing GB/T 15107-2005

Athletic Shoes

旅游鞋

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Foreword

This Standard is drafted according to the rules specified in GB/T 1.1-2009.

Compared with GB/T 15107-2005 "Athletic Footwear", the main differences of this Standard are as follows:

- The application scope of the standard was modified;
- The product classification was modified;
- The recommended value of thickness of primary parts was deleted;
- Inspection items of sensory quality were added, deleted and modified;
- Peeling test method was modified;
- Test method of adhesive properties was modified;
- Indexes of other physical and mechanical properties were modified;
- Requirements for the limit of substances were added;
- Product judgment was modified;
- Inspection rules, marking, packaging, transportation and storage directly quote the industry standard QB/T 1187 "Footwear - Principle of Inspection and Marking, Package, Transportation, Storage".

Attention is drawn to the possibility that some contents of this document may involve patent rights. The issuing organization of this document does not undertake the responsibility of identifying these patents.

This Standard was proposed by China National Light Industry Council.

This Standard shall be under the jurisdiction of the National Technical Committee on Shoes of Standardization Administration of China (SAC/TC 305).

Drafting organizations of this Standard: China Leather and Footwear Industry Research Institute, Li Ning (China) Sports Goods Co., Ltd., ANTA (China) Co., Ltd., Qingdao Double Star Group Technological Development Center, Xtep (China) Co., Ltd., Quanzhou Huanqiu Shoes and Clothing Co., Ltd., Deerway (China) Co., Ltd., Nike Sports (China) Co. Ltd., Maotai (Fujian) Soles Co., Ltd. AND Fujian Quanzhou Peak Sport Products Co., Ltd.

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The previous editions replaced by this Standard are as follows:

- GB/T 15107-1994, GB/T 15107-2005.

Athletic Shoes

1 Scope

This Standard specifies product classification, technical requirements, test methods, inspection rules as well as marking, packaging, transportation and storage of athletic shoes.

This Standard is applicable to athletic footwear, trainer shoes, gym shoes, walking shoes and jogging shoes for general uses, excluding sports shoes.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, the dated edition applies to this document. For undated references, the latest edition of the normative document (including any amendments) applies.

GB/T 251 Textiles - Tests for Color Fastness Gray Scale for Assessing Staining

GB/T 2703 Footwear - Vocabulary

GB/T 2912.1-2009 Textiles - Determination of Formaldehyde - Part 1: Free and Hydrolyzed Formaldehyde (Water Extraction Method)

GB/T 3293 Chinese Last Systems

GB/T 3293.1 Shoe Size

GB/T 3903.1-2008 Footwear - General test methods - Flexing Resistance

GB/T 3903.2-2008 Footwear - General test methods - Abrasion Resistance

GB/T 3903.3-2011 Footwear - General Test Methods - Peeling Strength

GB/T 3903.5-2011 Footwear - General Test Methods - Appearance Quality

GB/T 17592-2006 Textiles - Determination of the Banned Azo Colorants

GB/T 19941-2005 Leather and Fur - Chemical Tests - Determination of Formaldehyde Content

GB/T 19942-2005 Leather and Fur - Chemical Tests - Determination of Banned Azo Colorants

GB 20400 Leather and Fur - Limit of Harmful Matter

QB/T 1187 Footwear - Principle of Inspection and Marking, Package, Transportation, Storage

QB/T 2224-2012 Footwear - Performance Requirement for Uppers Low-Temperature Flexing Resistance

QB/T 2673 Footwear-Specification of Marking

QB/T 2882-2007 Footwear - Test Methods for Uppers Linings and Insocks - Color Fastness to Rubbing

QB/T 2886-2007 Footwear - Test Methods for Whole Shoe - Upper Sole Adhesion

QB/T 4108-2010 Metal Accessories for Footwear

3 Terms and Definitions

The definition in GB/T 2703 AND the following terms and definitions are applicable to this Standard.

3.1

Primary parts

In general situation, they refer to outer side of upper, forepart, counter-heel and toe-puff parts.

3.2

Subsidiary parts

In the general situation, they refer to inside upper surface and backside.

3.3

Low upper footwear

The shoes of which the upper is lower than tarsus.

4 Product Classification

4.1 By upper materials

It is divided into the following four categories by upper materials:

Materials of lining and insock are sampled. Without lining, the contact surface between upper and feet is taken as lining for the test.

6.8 Content of decomposable harmful aromatic amine dyes in textiles

6.8.1 Lining and upper are inspected separately, so are different materials. If the lining and upper fail to be separated, they can be inspected together according to the inspection methods of lining material.

6.8.2 Textiles are inspected according to GB/T 17592-2006, and the detection limit is 5 mg/kg.

6.9 Content of decomposable harmful aromatic amine dyes in leather

Sample preparation is the same as that in 6.8.1, and the decomposable harmful aromatic amine dyes in leather are inspected according to the requirements of GB/T 19942-2005, and the detection limit is 30 mg/kg.

Note: Other materials (except textiles) may be inspected by reference to 6.9.

6.10 Content of free or partially hydrolyzed formaldehyde in textiles

Sample preparation is the same as that in 6.7.1; it is inspected according to GB/T 2912.1-2009.

6.11 Content of free or partially hydrolyzed formaldehyde in leather

Sample preparation is the same as that in 6.7.1; it is inspected according to GB/T 19941-2005.

Note: Other materials (except textiles) may be inspected by reference to 6.11.

7 Inspection Items and Qualification Evaluation

7.1 Inspection items shall be in accordance with those specified in Table 7.

Table 7 Inspection Items

Inspection item	Type inspection item	End-of-manufacturing inspection item		Performance requirements	Test methods clause number
		Each pair	Random inspection		
General requirements	•	○	○	5.1	NA
Sensory quality	•	•	•	5.2	6.1
Peel strength of upper sole	•	-	•	5.3.1	6.2
Peel strength between sidewall and upper	•	-	•	5.3.1	6.2

Appendix B

(Informative)

After-sale Service Quality Judgment

B.1 After-sale service period

It shall be determined by the manufacturer according to the product grade, and shall be clearly declared in the after-sale service specification.

B.2 Judgment of quality problems

Within after-sale service period, it may be judged as quality problem in case of the following problems under normal wearing.

- a) The shoes fail to meet the quality requirements of the product standard;
- b) The upper and upper allowance crack, seriously turn white and obviously change color; finishing layer falls off or chaps;
- c) Split stitch and opening;
- d) Outsole or inner sole fractures or is uneven so as to affect wearing;
- e) It is uneven inside the shoes, so as to affect wearing;
- f) Air (liquid) cushion leaks or deflates.

B.3 Inspection method

B.3.1 Sensory inspection is carried out according to the requirements of GB/T 3903.5-2011.

B.3.2 De-coloration: white absorbent cotton or gauze, which has been saturated with clear-water (no water-drop when pressed by fingers), is pressed gently with hands; rub repeatedly within 10cm inside the upper for 10 times; then observe the absorbent cotton or gauze. It shall be free from obvious contamination.

B.4 Handling method

It can be handled according to the after-sale service specification stipulated by manufacturer, or according to the local unified-provisions where the marketing organization is located.

_____ **END** _____

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