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Snow Boots

雪地靴

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Snow Boots

1 Scope

This Standard specifies the terms and definitions, product classification, requirements, after-sales quality judgment, test methods, inspection items and judgment, inspection rules, marking, package, transportation and storage of snow boots.

This Standard is applicable to the general-purpose snow boots.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 251 Textiles – Tests for Color Fastness - Grey Scale for Assessing Staining (GB/T 251-2008, ISO 105-A03:1993, IDT)

GB/T 2703 Footwear – Vocabulary

GB/T 2912.1-2009 Textiles - Determination of Formaldehyde - Part 1: Free and Hydrolyzed Formaldehyde (Water Extraction Method) (ISO 14184-1:1998, MOD)

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 3903.6 Footwear - Test Methods for Whole Shoe - Slip Performance

GB/T 6682 Water for Analytical Laboratory Use - Specification and Test Methods

GB/T 17592-2011 Textiles - Determination of the Banned Azo Colorants

GB/T 19941-2005 Leather and Fur - Chemical Tests - Determination of Formaldehyde Content (ISO/TS 17226:2003, MOD)

GB/T 19942-2005 Leather and Fur - Chemical Tests - Determination of Banned Azo Colorants (ISO/TS 17234:2003, MOD)

younger.

3.5 Children's snow boots

The snow boots with shoe size no larger than 250mm for children 3~14 years old.

4 Product Classification

4.1 It can be divided into the following 6 categories according to the upper materials:

- Leather & fur;
- Natural leather + fitted sheep shearing;
- Natural leather + artificial wool;
- Synthetic material + natural/artificial wool;
- Fabric + natural/artificial wool;
- Other thermal insulation materials.

4.2 It can be divided into the following 3 categories according to the wearing objects:

- Adult's snow boots;
- Children's snow boots;
- Infant's snow boots.

5 Requirements

5.1 General requirements

5.1.1 The safety of children's and infant's snow boots shall meet the requirements of GB 30585.

5.1.2 The identification shall meet the requirements of QB/T 2673.

5.1.3 The footwear materials shall meet the requirements of the corresponding product standards. For instance, the leather and wool shall meet the requirements of GB 20400; while the accessories shall meet the requirements of QB/T 4108-2010.

5.1.4 No defects that affect the wearing shall appear.

5.2 Sensory quality

5.3.1 Upper-sole peeling strength

5.3.1.1 The sewing and sticking snow boots and those styles that can't effectively test the peeling strength shall not test the upper-sole peeling strength.

5.3.1.2 The upper-sole peeling strength shall be no less than 45N/cm; if the materials are torn while the adhesive layer is not open; then the upper-sole peeling strength shall be no less than 20N/cm.

5.3.2 Folding resistance

5.3.2.1 The shoes with size less than 230mm shall not test for the folding resistance; the shoes with sole flexure thickness exceeding 25mm shall not test for folding resistance.

5.3.2.2 The requirements for folding resistance can refer to Table 2.

Table 2 – Folding Resistance

Items	Requirements
Folding resistance	After folding, there shall be no upper cracks; the bottom-wall, upper-sole and sole tackless \leq 10.0mm. After folding, the number of cracks on the sole shall be no greater than 3; and the crack length \leq 5.0mm; the sole shall not appear the paint peeling

5.3.3 Wear resistance

The wear resistance shall meet the following requirements: wear resistance length shall be no greater than 15.0mm.

5.3.4 Low-temperature folding resistance for upper materials

It shall meet the requirements of QB/T 2224-2012.

5.3.5 Color fastness to rubbing for linings and insoles

The technical indicators for color fastness to rubbing for linings and insoles: color staining shall be no less than Levels 2~3.

5.3.6 Cold resistance

Within 30min, the temperature inside the shoe shall be reduced by no more than 10°C.

5.3.7 Anti-slip performance

The wet static coefficient of friction shall be no less than 0.30.

5.3.8 Micropore bottom compression deformation

7.3 Folding resistance

It shall be tested as per GB/T 3903.1-2008; no cutting, continuous flexing for 40 thousand times.

7.4 Wear resistance

It shall be tested as per GB/T 3903.2-2008.

7.5 Low-temperature folding resistance for upper materials

It shall be tested as per QB/T 2224-2012.

7.6 Color fastness to rubbing for linings and insoles

7.6.1 Take the linings and insoles materials as the specimen. If there are no linings, take the contact surface of upper with foot as linings to conduct the test.

7.6.2 Materials such as furs and leathers shall be tested as per QB/T 2790-2006; other materials shall be tested by wet-rubbing 50 times as per the Method A in QB/T 2882-2007, then assess the color staining levels of gray scale as per GB/T 251.

7.7 Cold resistance

It shall be tested as per GB/T 21284-2007.

7.8 Anti-slip performance

It shall be tested as per GB/T 3903.6; take the Class-III water conforming to GB/T 6682 as the medium; the result shall take the wet static friction coefficient of the specimen; The lower value of the test data of the same pair of shoes is taken as the final result.

7.9 Micropore bottom compression deformation

It shall be tested as per HG/T 2876-2009.

7.10 Decomposable harmful aromatic amine dye content

7.10.1 The lining and upper shall be separated for testing, different materials shall also be separated for testing. If the lining and upper can't be separated, they shall be tested together; the test method shall conform to the method of lining test.

7.10.2 The textiles shall be tested as per GB/T 17592-2011; while the leathers and furs shall be tested as per GB/T 19942-2005.

7.11 Formaldehyde content

7.11.1 The specimen preparation shall be the same as 7.10.1.

Appendix A

(Informative)

After-Sales Quality Judgment

A.1 After-sales service period

It can be determined by the enterprise according to the product grade; and clearly stated in the after-sales service specifications.

A.2 After-sales quality judgment

In the case of normal wear and within the after-sales service period, the following problems can be judged as quality problems:

- a) Does not meet the quality requirements of the product standard;
- b) Upper is cracked, upper-allowance is broken or cracked; serious white frost, discoloration. The vamp has obviously loose grain; coating layer peels off; upper directly contact with ground and wearing;
- c) Line-opening, and glue-opening;
- d) Main-heel or tip-binding deforms;
- e) Heel is deformed, cracked, broken, or dropped. Heel surface peels off;
- f) Lining and insocks are obviously discolored and contaminate the socks. Linings and insocks are worn out;
- g) The outsole or innersole is cracked, broken or uneven; affecting the wear;
- h) Foxing is tackles and broken;
- i) The protruding nail tip (head) in the shoe, the unevenness in the shoe; affecting the wear;
- j) Decorative substances on the upper peel off.

A.3 Inspection methods

A.3.1 Sensory inspection shall be carried out as per the provisions of GB/T 3903.5-2011.

A.3.2 Discoloration: press the white absorbent cotton or gauze that absorbs water (use

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