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QB/T 1333-2010

Replacing QB/T 1333-2004

Handbag and Knapsack

背提包

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Foreword

This Standard is the revision to QB/T 1333-2004 "Handbag and Knapsack".

Compared with QB/T 1333-2004, the main changes of this standard are as follows:

- Adjust the "Scope";
- Add normative references in "Normative References";
- Delete "Terms and Definitions";
- Adjust "classification according to variety" and add corresponding requirements;
- Add the requirements for "materials and auxiliaries", "harmful substance limit", "specification and permissible deviation" and "marking";
- Adjust "the requirements of shell fabric" in "appearance quality" to "the requirements of shell fabric and lining fabric";
- Adjust the requirements of "specified weight loading"; adjust the test method of "weight loading" to "Oscillation and impact test";
- Improve the requirements of "zipper durability";
- Refine the test method of "colour fastness to rubbing";
- Add the requirements of "corrosion resistance of metal fittings";
- Add test requirements of "lock";
- Add "special type inspection";
- Modify "determination of qualification";
- Add "transportation and storage".

This standard was proposed by the China National Light Industry Council.

This standard shall be under the jurisdiction of the National Technical Committee on Leather of Standardization Administration of China (SAC/TC 252).

Drafting organizations of this standard: Guangdong Shenglilai Leather Product Co., Ltd., and Guangzhou Shark Leather Product Co., Ltd.

Chief drafting staffs of this standard: Zou Lisheng, Zou Limeng, Mo Feiying, and Zhong

Xihao.

From the implementation date, this standard replaces previous light industry standard QB/T 1333-2004 "Handbag and Knapsack".

The previous editions of the standard replaced by this standard are:

- QB/T 1333-1991;
- QB/T 1333-1996;
- QB/T 1333-2004.

Handbag and Knapsack

1 Scope

This standard specifies the product classification, requirements, test methods, inspection rules, marking, labeling, packing, transportation and storage of handbag and knapsack.

This standard is applicable to various handbags and knapsacks for daily life use. Handbags and knapsacks which have special purpose may adopt this standard by reference.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated reference, only the dated editions are applicable to this standard. For undated references, the latest edition (including all amendments) is applicable to this standard.

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

GB/T 3920-1997 Textiles-Tests for Colour Fastness-Colour Fastness to Rubbing

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

GB 19340-2003 Adhesives for Footwear and Base and Bag

GB/T 19942 Leather and Fur-Chemical Tests-Determination of Banned Azo Colourants (GB/T 19942-2005, ISO/TS17234: 2003, MOD)

GB 20400 Leather and Fur-Limit of Harmful Matter

GB 21550-2008 The Restriction of Hazardous Materials in Polyvinyl Chloride Artificial Leather

QB/T 1586.1 Hardware Fitting of Case and Bag-Case-lock

QB/T 2002.1 Hardware Fitting of Leather-Technical Conditions of Electroplated Coating

QB/T 2002.2 Hardware Fitting of Leather-Technical Conditions of Surface Spray Coating

QB/T 2537 Leather-Tests for Colour Fastness-Colour Fastness to Cycles of to-and-fro Rubbing

QB/T 2922 Case and Bag-Test Method for Fall Down

QB/T 3826-1999 Corrosion-Resistant Testing Method of the Metal Deposits and Conversion Coatings for the Light Industrial Products-Neutral Salt Spraying Test (NSS)

3 Product Classification

3.1 Classification according to variety (surface material)

- a) Leather handbags and knapsacks;
- b) Artificial leather and synthetic leather handbags and knapsacks;
- c) Renewed leather handbags and knapsacks;
- d) Fabrics shell fabric handbags and knapsacks;
- e) Handbags and knapsacks adopting various materials as the shell fabric;
- f) Handbags and knapsacks of other materials.

3.2 Classification according to type (structure)

- a) Knapsacks with various shoulder straps;
- b) Handbags with various handles;
- c) Bags used both as handbags and knapsacks with various shoulder straps and handles.

4 Requirements

4.1 Materials and auxiliaries

Adopt in accordance with relevant product standards.

4.1.1 Harmful substance limit

Harmful substance limit of leather and renewed leather shall meet the requirements of GB 20400 and those specified in Table 1. For polyvinyl chloride artificial leather material, harmful substance limit shall meet the requirements of GB 21550-2008. Harmful substance limit of fabrics material shall meet the requirements specified in Table 1. And the limit of harmful substances of adhesives for bags and suitcases shall meet the requirements specified in Table 2.

Table 1 Harmful Substance limit of Leather, Renewed Leather and Fabrics Materials

Item	Limit value
Dissoluble harmful aromatic amine dye/ (mg/kg)	≤30

			allowed to exist. For a single product, the number of upper empty stitch, missing stitch and skipped stitch shall not exceed one; the number of empty stitch, missing stitch and skipped stitch shall not exceed two.
6	Zipper	The suture is straight and even, the side distances are consistent, the opening and closing of zipper is smooth; without misalignment, off teeth and decoloration	
7	Auxiliaries	Bright; without rust, damage, missing plating and burr; pin hole, foaming, peeling, falling off and visible scratch are not allowed to exist	Bright; without rust, damage, missing plating and burr; phenomena of peeling and falling off are not allowed to exist
8	Installation of auxiliaries	Flat and firm	
9	Guide sample ^a	The product attached guide sample has identical material with the main body of handbags and knapsacks	
^a The guide sample refers to the sample block attached by products material in order to indicate the main body material; products not attached with guide sample will not be subjected to inspection of this item.			

4.5 Physical and mechanical properties

4.5.1 Specified weight loading

It shall meet the requirements specified in Table 4.

4.5.2 Oscillation and impact property

Carry out oscillation and impact test under specified weight loading condition. Respectively inspect shoulder straps, handles and side straps. The oscillation and impact times are: 400 times for double shoulder straps and double handles; 250 times for single shoulder straps and single handle; 150 times for side straps. After the test, the bag body shall be free from cracking; each component shall be free from deformation, fracture, damage and split thread; various straps which take connecting action are not allowed to have above 30% deformation; fixed parts and connecting pieces shall be free from looseness; the bag lock shall be capable of being opened normally, the trick lock is free from phenomena of being stuck, skipping number, off hook, disordered number and password out of control.

Note: Double shoulder straps and double handles refer to the same components at corresponding symmetrical position of products.

4.5.3 Other physical and mechanical properties

They shall meet the requirements specified in Table 5.

Table 4 Specified Weight Loading

Specification/mm	Specified weight loading/kg
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the outline of the bag body under natural state.

Note: When the parties concerned have disagreement on the specification and permissible deviation, the specification and permissible deviation shall be inspected according to the design requirements.

5.3 Appearance quality and marking

Inspect with eyes, sensing and measuring ruler under natural light.

5.4 Physical and mechanical properties

5.4.1 Oscillation and impact property

Before the test, use a straight steel ruler with scale of 1mm to measure the length of straps part (length of unfixed part) which takes connecting action. Carry out specified weight loading according to those specified in Table 4. Uniformly place the weight loading object in the package. Adjust the shoulder straps to maximum length. Respectively carry out test to shoulder straps, handles and side straps according to the requirements of QB/T 2922. After the test, measure the length of straps part which takes connecting action within 2min. And calculate its deformation amount.

When double shoulder straps and double handles are tested, two shoulder straps or two handles shall be simultaneously fixed to the spring hook of oscillation and impact tester of bags and suitcases.

5.4.2 Sewing strength

Cut out two portions of suture shell fabric of main position of handbag and knapsack with effective area of 60mm×60mm (the suture length is 60mm and the widths of shell fabric at both sides of suture are 60mm). The width between upper and lower clamp is 50mm and the depth is (30±2)mm. Test with a tensile machine. The pulling speed is (100±10)mm/min. And test until it is broken (thread or shell fabric). Take the minimum value as the result. If the displayed reading of tensile machine exceeds the specified value of sewing strength but the sample is not yet broken, the test may be terminated.

5.4.3 Auxiliaries

Carry out manual inspection after the test of oscillation and impact properties. Each opening and closing are recorded as once. Respectively test for 200 times.

5.4.3.1 For mechanical trick lock, turn the cipher wheel by hand to set a password. Open and close the trick lock with the set password. Arbitrarily set different digital codes and respectively open and close for 200 times. For key lock, insert the key along the lock barrel into the key slot of lock barrel to open and close the lockset. For electronic encoding lock, use electronic key to open and close the lockset.

5.4.3.2 The key lock and electronic encoding lock shall be tested for 10 times with

non-dedicated keys. The mechanical trick lock shall be subjected to opening test by adopting any ten different scramble codes.

5.4.3.3 Manual opening and closing of connector clips and magnetic fasteners are recorded as once. Respectively test for 200 times.

5.4.4 Zipper durability

Select a zipper with length of 20cm. Carry out test at the speed of 20 times/min. Each opening and closing are recorded as once. If the zipper's length is less than 20cm, carry out test in the maximum length range of zipper.

5.4.5 Friction color fastness

Respectively sample from the surface and bag cover of handbag and knapsack. Inspect the staining fastness. When the front surface, rear surface and bag cover are of the same material, sample from the rear surface for testing. When front surface, rear surface and bag cover are of different materials, respectively sample for testing. When front surface and cover are of the same material, sample from the front surface or cover for testing.

Materials of leather, artificial leather, synthetic leather and renewed leather shall be subjected to inspection according to QB/T 2537. The mass of test head is 1000g. Carry out dry rubbing for 50 times and wet rubbing for 10 times. For fabric materials, take a group of samples for the inspection according to the requirements of GB/T 3920-1997.

5.4.6 Resistance to corrosion of hardware fitting

Carry out inspection according to QB/T 3826-1999. The chromium-plating piece shall be tested for 12h; the zinc coated part shall be tested for 6h.

6 Inspection Rules

6.1 Group-batch

The products of same-type and same-specification, produced by same-type of raw materials and same-type of process ARE deemed as an inspection batch.

6.2 Ex-factory inspection

Each batch of products must be subjected to the appearance inspection piece by piece. It shall not be delivered until it is qualified.

6.3 Routine type inspection

If one of the following conditions occurs, it shall randomly draw 3 products from the ex-factory qualified products to perform the routine type inspection.

- a) There is significant change in product structure, technique and materials;
- b) When the production has been suspended for half a year, and the production is resumed;
- c) When the state quality supervision organization requires carrying out the type inspection;
- d) During the regular production, a type inspection is carried out at least once half a year.

6.4 Special type inspection

In compliance with the requirements of Appendix A.

6.5 Determination of qualification

6.5.1 Determination rule for single piece

- a) Superior products: If the harmful substance limit, appearance quality, marking, physical and mechanical properties all meet the requirements of superior products, the products are deemed as the superior products;
- b) Qualified products: If one item is unqualified in harmful substance limit, marking, physical and mechanical properties, then the products are deemed as unqualified. If all the harmful substance limit, marking, physical and mechanical properties are qualified; then no more than 3 minor-items are allowed in the appearance quality, the products are deemed as qualified. If products have such defects that may affect the use function, the products are deemed as unqualified.

6.5.2 Batch determination rules

- a) Superior products: This batch of products are superior products, if all 3 tested products meet the requirements of superior products;
- b) Qualified products: This batch of products are qualified products, if all 3 tested specimens meet the requirements of qualified products. If one (or more) is unqualified, reinspection shall be carried out by double sampling. This batch of products is qualified if all reinspection items are qualified.

7 Marking, Labeling, Packing, Transportation and Storage

7.1 Marking

7.1.1 The qualified products shall have the following marking:

Production organization (distribution organization) name, production organization address, trademark, grade, product certificate (or inspection marking), telephone. If necessary,

instructions (maintenance) of the products shall be attached.

7.1.2 If necessary, external packing of the products shall include product name, article number, color, number, storage (protection) marking, etc.

7.2 Labeling

Product labeling shall include the following contents: Product name, product standard number, specification (model), article number, main body material (shell fabric and lining fabric), qualified (inspection) marking, etc.

7.3 Packing

Inner and outer packing of products shall be made of appropriate packing materials, so as to keep the products from damage during the transportation and storage.

7.4 Transportation and storage

- Prevent from insolation, rain and snow;
- Maintain ventilated and dry. Keep away from moisture and hot environment;
- Keep products away from chemicals and liquid erosion;
- Avoid stabbing or scratching by sharp objects.

Appendix A

(Normative)

Special Type Inspection

A.1 Application scope

National supervision and sampling inspection, arbitration inspection and consumption dispute.

A.2 Requirements

The dissoluble harmful aromatic amine dye in the materials of leather, renewed leather and fabrics shall be in accordance with those specified in Table 1, based on the routine type inspection.

A.3 Test method

A.3.1 Sampling

The sampling shall be carried out on the main positions of the products and different materials shall be sampled respectively. The samples shall be representative. The sampling conditions shall be reported in details.

A.3.2 Inspection

Different materials shall be inspected respectively. The materials of leather, renewed leather shall be inspected according to GB/T 19942. And the fabrics materials shall be inspected according to GB/T 17592-2006.

A.4 Determination of qualification

If this inspection does not conform to the requirements specified in Table 1. The products are determined as unqualified.

END
