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NATIONAL LIGHT INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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Schoolbags

学生书袋

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Foreword

This Standard referred to the German standard DIN 58124-2000 *Schoolbags*.

This Standard was proposed by China Light Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee on Sports & Recreational Articles of Standardization Administration of China.

Main drafting organizations of this Standard: Foshan Shunde District Kai Digital Technology Co., Ltd. (Foshan Shunde Lunjiao Intellectual Stationery Handbag Factory), Fujian New Generation Industrial Co., Ltd.

The drafting organizations of this Standard: Zhongshan Lianzhong Stationery Gifts Co., Ltd., Fuzhou United Stationery Gifts Co., Ltd., Fujian Jinjiang Sanhe Stationery Gifts Co., Ltd.

Main drafters of this Standard: Feng Deqiang, Feng Xuexin, Zheng Chengqiang, Li Yanli, Tang Xiaofeng, Xu Shu.

This Standard was issued for the first time.

Schoolbags

1 Scope

This Standard specifies the classification, specifications, requirements, test methods, inspection rules and marks, packaging, transport, storage of schoolbags.

This Standard is applicable to shoulder bags, backpacks and handbags mainly used to place teaching textbooks, supplementary materials and student supplies. Other bags with similar functions can refer to this Standard for the implementation.

2 Normative references

The following standards contain the provisions which, through reference in this Standard, constitute the provisions of this Standard. For dated references, subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB/T 2828.1-2003, *Sampling procedures for inspection by attributea-Part1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

GB/T 2829-2002, *Sampling procedures and tables for periodic inspection by attributes (Apply to inspection of process stability)*

GB/T 2912.1-1998, *Textiles--Determination of formaldehyde--Part 1: Free and hydrolized formaldehyde (Water extraction method)*

GB/T 3920-1997, *Textiles - Tests for colour fastness--Colour fastness to rubbing*

GB 6675-2003, *National safety technical code for toys*

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)*

QB/T 3832-1999, *Evaluation of the corrosion test results of the metal*

5 Test methods

5.1 Specification

Use a steel ruler of which the scale value is 1 mm to measure.

5.2 Weight-bearing

5.2.1 Swing test

The schoolbags shall bear weight according to the provisions. It shall respectively test the straps and handles: hang in suspension and the straps shall be in the longest state; OR adjust the distance to the swing axis as 50 cm ~ 60 cm. Swing 30 times (a round trip is regarded as 1 time). Swing angle is $(60 \pm 3)^\circ$. When swing stops, inspect whether the straps, handles, adjustment belts, hooks and loops are firm. Within 2 mm, measure the lengths of parts as connection role. Compared with the original length, check if the deformation exceeds 20%.

5.2.2 Static, falling tests

Measure the lengths of parts as connection role. The bag shall bear the weight 1.2 times the specified weight. Hang in suspension (the straps are in the longest state). The height from the bag bottom to the ground (the ground surface is hardwood board) is 60 cm. Make the force even and in static state. After 30 min, make it fall vertically. Inspect whether the straps, handles, adjustment belt, hooks and loops are firm. Within 2 mm, measure the lengths of parts as connection role. Compared with the original length, check if the deformation exceeds 20%.

5.3 Tests of other performances

5.3.1 Suture strength

Take two pieces of suture fabric from the main part of the schoolbag of which the area of each piece is 60 mm × 60 mm. The upper and lower fixture width is 50 mm, depth is (30 ± 2) mm. Use tension machine to test at a tension speed of (100 ± 10) mm/min till it breaks (thread or fabric). Take the maximum value as the test result. The the reading on the tension machine exceeds the specified suture strength value but the sample is not broken, it shall suspend the test.

5.3.2 Electroplating accessories

Carry out the test according to QB/T 3826-1999. Evaluate the test results according to QB/T 3832-1999.

5.3.3 Zipper durable fastness

7 Marks, packaging, transport, storage

7.1 Marks

7.1.1 The product's name, manufacturer (or distributor) name, address, trademark, standard reference used, production date or lot number should be marked on the product (or packaging).

7.1.2 The schoolbag mark (label) should be marked with specifications, material, if necessary, there should be washing instructions and instructions on use.

7.2 Packaging

The inside and outside of the product should be packed in plastic or paper, and the certificate should be placed. The outside packaging is carton.

7.3 Transport

During transport, pay attention to the use of cover tools to prevent the sun, rain.

7.4 Storage

Store in a dry and ventilated place. It should be more than 200 mm away from the wall, more than 100 mm away from the ground. It should not be stored with chemical corrosions.

_____ **END** _____