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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

WS/T 585-2018

**Hygienic requirements of student's schoolbag in primary and
middle school
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard was drafted. Harbin Medical University, Peking University School of Medicine, Guangzhou City Primary and Secondary School Health Care.

1 Scope

This standard specifies the hygiene requirements of the schoolbag and the hygiene requirements for the use of schoolbags.

This standard is applicable to shoulder bags for teaching textbooks, teaching aids and school supplies for primary and secondary school students, and students of secondary vocational and technical schools.

The manufacturer of the bag and bag can refer to the implementation.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this document.

For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2912.1 Determination of formaldehyde - Part 1 . Free and hydrolyzed formaldehyde (water extraction method) GB 6675 Toy Safety Part 4. Migration of specific elements QB/T

2858 Student Book Bag

3 Terms and definitions

The following terms and definitions apply to this document.

Schoolbag

Made of fabric or leather, it is mainly used for students to go to school for fashion books and stationery bags.

Reflective material retroreflective material A material with retroreflective properties.

Migratable element migration element when the human body touches the surface of the bag, certain elements in the material of the bag can be inhaled through sweat, saliva, etc., for human health.

A certain hazard, these elements are called migratory elements.

Maximum limit of migration element the maximum safety limit for human exposure to migratory elements.

4.1 Structure of the schoolbag

The style of the bag should be a shoulder bag that is longer than the width, as shown in Figure 1. The size of the bag should meet the requirements of Table 1. In Model 1 and Model 2 the front and side of the bag (0°, 45°, 90°) are equipped with a reflective material of at least 20 mm wide, and the shoulder strap should be at least 20 mm wide and 50 mm long.

Reflective material. The back of the bag should have a supporting function, and the supporting material can be a polyurethane cotton or a polyvinyl chloride foam which meets the hygienic requirements.

Wait. Models 3 and 4 can be worn with belts and chest straps. The comfort and other aspects of the bag must meet the requirements of QB/T 2858.

Description.

1--bags;

2--bag cover;

3--back of the bag;

4--bag belt;

5--the bottom of the bag;

6--in front of the bag;

7--the side of the bag;

8 -- the length of the bag;

9 -- the width of the bag;

10 -- The height of the bag.

Figure 1 Schematic diagram of the shoulder strap student bag structure

4.2 The main size of the bag and the range of student height the main dimensions of the four model bags and the applicable range of student height are shown in Table 1.

Table 1 Main dimensions of four models of school bags and student height range

School bag model	bag high Mm	Long book Mm	Book width Mm	Student height range Cm
1	420	320	160	≥ 166.0
2	380	300	140	$144.0 \sim 165.9$
3	330	300	120	$128.0 \sim 143.9$
4	300	280	100	< 128.0

Note. The allowable error range for dimensions is $\pm 5\text{mm}$.

4.3 Bag weight

The weight of the bag is 0.5kg~1.0kg, the small model is lighter, and the larger model can be heavier.

4.4.1 Limitation of formaldehyde content

The formaldehyde content of the fabrics and accessories used in the bag should not exceed 300mg/kg, and the test method is carried out according to GB/T 2912.1.

4.4.2 Maximum number of migratable elements

The maximum limit of the migratable elements in the bag material is shown in Table 2. The detection method is performed according to GB 6675...

Table 2 Maximum number of migratable elements

The unit is milligrams per kilogram	Element maximum limit	element maximum limit
?Sb	60	
chrome Cr	60	
Arsenic As	25	
lead Pb	90	
?Ba	1000	
Mercury Hg	60	
Cadmium Cd	75	
Selenium Se	500	

4.5 Mark

The product (or packaging) should have the product name, production unit name, address, trademark, date of manufacture or batch number, and the standard number.

The school bag produced according to this standard, the permanent mark attached to the schoolbag, should indicate the material, specifications, the range suitable for the height of the student, the standard Number, or have instructions for washing and instructions for use.

5 Hygiene requirements for the use of school bags

5.1

Select the bag model according to the student's height.

5.2

The weight of the schoolbag carried by the student shall not exceed 10% of the student's weight.