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NATIONAL STANDARD OF THE
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ICS 59.080.30

W 63

GB/T 29868-2020

Replacing GB/T 29868-2013

Sports protective products - Knitted products general technical requirements

运动防护用品 针织类基本技术要求

Issued on: November 19, 2020

Implemented on: June 01, 2021

Issued by: State Administration for Market Regulation;

**Standardization Administration of the People's Republic of
China.**

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Foreword

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

This Standard replaces GB/T 29868-2013 "General technical criterion for knitted sports protection article". Compared with GB/T 29868-2013, the main changes are as follows:

- Modify the scope of application of the standard (see Chapter 1; Chapter 1 of version 2013);
- Modify and supplement normative references (see Chapter 2; Chapter 2 of version 2013);
- Modify some indicators and specifications, including adding the color fastness to wet rubbing, changing the name of "metal hazards" to "sharp objects such as metal needle", changing the stretch and recovery rate assessment item "lateral" to "extending direction", and adding a description of the conditions for not evaluating the item (see Tables 1 and 3.3; Table 1 and 3.3 of version 2013);
- Modify the stretch and recovery rate test method (see 4.9; 4.8 of version 2013).

This Standard was proposed by China National Textile and Apparel Council.

This Standard shall be under the jurisdiction of National Technical Committee 291 on Sporting Goods of Standardization Administration of China (SAC/TC 291).

The drafting organizations of this Standard: Anta (China) Co., Ltd., Peak (China) Co., Ltd., TianFangBiao Standardization Certification & Testing Co., Ltd., Beijiog (Shanghai) Industry Development Co., Ltd., Yangzhou Qiangjing Sports Products Co., Ltd., Yangzhou Aolikes Sports Goods Co., Ltd., Centre Testing International Group Co., Ltd., Yangzhou SENSPORT Sporting Goods Co., Ltd., Yangzhou Feiyali Sporting Goods Co., Ltd., TianFangBiao (Guangdong) Testing Technology Co., Ltd., Yangzhou Jiangdu Quality Technology Association, Zhejiang Baonasi Hoses Industry Co., Ltd., Jiajia Holding Group Co., Ltd., Tianfangbiao (Shanghai) Testing Technology Co., Ltd.

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The previous versions of the standards which are replaced by this Standard are:

Sports protective products - Knitted products general technical requirements

1 Scope

This Standard specifies the basic technical requirements, detection methods and sampling rules for knitted sports protective products. Other requirements for sports protective products shall be implemented in accordance with relevant product standards.

This Standard applies to knitted sports protective products whose main raw material is textile fiber, which are knitted by knitting technology or are made of knitted fabric and polyurethane foam materials, including ankle guard, leg guard, kneecap, waist support, wrister, barcer, elbow pad, shoulder pad and headband.

This Standard does not apply to sports protective products for infants and young children aged 36 months and below.

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, Textiles - Determination of formaldehyde - Part 1: Free and hydrolyzed formaldehyde (water extraction method)

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

GB/T 3922, Textiles - Tests for colour fastness - Colour fastness to perspiration

GB/T 5713, Textiles - Tests for colour fastness - Colour fastness to water

GB/T 7573, Textiles - Determination of pH of aqueous extract

GB/T 8170, Rules of rounding off for numerical values & expression and judgment of limiting values

GB/T 17592, Textiles - Determination of the banned azo colourants

GB/T 17593.1, Textiles - Determination of heavy metals - Part 1: Atomic absorption spectrophotometry

3.3 For stretch and recovery, only cylindrical products that contain elastic materials such as spandex and rubber bands are assessed; products that are laminated with knitted fabrics and polyurethane foam are not assessed.

3.4 For the N-nitrosamine item, only test the rubber band that is used in protective clothing. The list of non-detectable N-nitrosamines is shown in Appendix A; the limit value is less than or equal to 0.5 mg/kg.

4 Test method

4.1 Color fastness test to perspiration

Perform according to GB/T 3922.

4.2 Color fastness test to water

Perform according to GB/T 5713.

4.3 Color fastness test to rubbing

Perform according to GB/T 3920; in general, only assess the straight direction.

4.4 Formaldehyde content test

Perform according to GB/T 2912.1.

4.5 pH value test

Perform according to GB/T 7573.

4.6 Odor test

Perform according to GB 18401.

4.7 Resoluble carcinogenic aromatic amine dyes test

Perform according to GB/T 17592.

4.8 Sharp objects such as metal needle

Perform according to GB/T 24121; use the detection sensitivity (standard iron ball test card): 1.0 mm.

4.9 Stretch and recovery test

Perform according to the regulations in 8.3.2.2 of FZ/T 70006-2004. Do the test of product extending direction only, which is generally horizontal stretch. Do not damage the product; clamp in double layers. The clamp width is greater than

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