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Specification for clothing made of coated fabrics for protection against wet weather

涂层服装抗湿技术要求

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Specification for clothing made of coated fabrics for protection against wet weather

1 Scope

This standard specifies the type and design, production requirements, performance requirements and test methods of woven coated garments.

This standard is applicable to woven garments such as outerwear, jackets, overalls, outer pants and jumpsuits. Clothing products such as waterproof hats can be implemented with reference to this standard.

This standard does not apply to the clothes 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 3917.4 Textiles - Tear properties of fabrics - Part 4: Determination of tear force of tongue-shaped test specimens (Double tear test)

GB/T 4744 Textiles - Testing and evaluation for water resistance - Hydrostatic pressure method

GB/T 4745 Textile fabrics - Determination of resistance to surface wetting - Spray test

GB/T 8629-2017 Textiles - Domestic washing and drying procedures for textile testing

GB/T 13773.1 Textiles - Seam tensile properties of fabrics and made-up textile articles - Part 1: Determination of maximum force to seam rupture using the strip method

GB/T 15557 Terms used by the clothing industry

FZ/T 01010 Coated fabrics - Determination of coating peeling strength

seams in Table 1.

4.2.2 The design of overalls shall comply with the provisions of 4.1.3 ~ 4.1.7.

4.3 Outer pants

4.3.1 For pants with tight waist, it shall provide an elastic band or drawstring at the waist of the pants. For pants with no tight waist, it shall be designed as straps or overalls. The seams on the garment and the seams between the garment and the part shall comply with the performance requirements of the seams in Table 1.

4.3.2 If there are hanger loop, it shall meet the performance requirements of the hanger loop in Table 1.

4.4 One-piece suit

4.4.1 The one-piece suit shall cover the human body, including the ankle, neck and wrist joints. The front top fly's length is at least 65 cm. The seams on the garment and the seams between the garment and the part shall comply with the performance requirements of the seams in Table 1.

4.4.2 The design of the one-piece suit shall comply with the provisions of 4.1.3 ~ 4.1.7.

4.5 Waterproof hat

The waterproof hat shall have a strap attached to the chin. The waterproof hat is not suitable for children under the age of 7 and the straps for the waterproof hat of the child over 7 years old shall not have a free end.

4.6 Special design

Other special designs that can be chosen are as shown in Appendix A.

5 Performance requirements

Product's performance requirements shall meet the requirements of Table 1.

Appendix B

(Normative)

Test method for adhesion of patch pockets

B.1 Principle

Test the maximum force the pocket takes when it is detached from the garment.

B.2 Equipment

B.2.1 Constant-velocity elongation tester

Means for indicating or recording the maximum force applied to the specimen to stretch to break. The error indicating or recording the breaking force shall not exceed ±1%. The rate shall be 100 mm/min. The accuracy shall be ±10%. The width of the tongs shall be 25 mm.

If the value of the force is obtained by the use of a data acquisition circuit or software, the frequency of data acquisition is not less than 8 times/s.

B.2.2 Metal plate

See Figure B.1.

B.3 Test procedure

Take two specimens containing pockets from the garment, which is 25 cm wide and 35 cm long. The mouth of pocket is at the center of the specimen. Wet the specimen at a temperature of (20 ± 2) °C and a relative humidity of (65 ± 5)% for at least 16 h.

Hold the pocket mouth on the moving tangs of the strength meter. Insert one end of the curved metal plate into the pocket. Clamp the other end of the metal plate on the other tangs of the strength meter, the length of the gauge is 100 mm. The strength meter is moves at the speed of 100 mm/min.

Record the force when the pocket is out of the garment and report the average, in the unit of N. When it is 100 N and below, it is rounded off to 1 N. When it is more than 100 N and less than 1000 N, it is rounded off to 10 N. When it is 1000 N and above, it is rounded off to 100 N.

Appendix C

(Normative)

Test method of hanger loop's strength

C.1 Principle

Test the force that the hanger loop is stretched to breakage.

C.2 Equipment

C.2.1 Constant-velocity elongation tester

A device that indicates or records the maximum force applied to the specimen to stretch to break. The error indicating or recording the breaking force shall not exceed ±1%. The rate is 100 mm/min. The accuracy is ±10%. The clamp's width is 25 mm.

If the value of the force is obtained by the use of a data acquisition circuit or software, the frequency of data acquisition is not less than 8 times/s.

C.2.2 Horizontal bar

It is equipped with a horizontal bar of 7 mm diameter for the placement of the hanger loop.

C.3 Test procedure

Take a specimen containing a hanger loop from the garment. The size of specimen is 15 cm x 13 cm. Make a marking line in the middle of the hanger loop. Wet the specimen at a temperature of (20 ± 2) °C and a relative humidity of (65 ± 5)% for at least 16 h.

The hanger loop is placed on the horizontal bar which is installed on the moving clamp. The middle of the hanger loop is in contact with the horizontal bar. The end of the specimen without the hanger loop is clamped to the other clamp of the strength meter (see Figure C.1). The spacing is 100 mm and the strength meter moves at a speed of 100 mm/min.

Record the force when the hanger loop breaks and report the average, in the unit of N. When it is 100 N and below, it is rounded off to 1 N. When it is more than 100 N and less than 1000 N, it is rounded off to 10 N. When it is 1000 N and above, it is rounded off to 100 N.

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