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Outdoor sportswear - Water resistant garments

户外运动服装 冲锋衣

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Outdoor sportswear - Water resistant garments

1 Scope

This document specifies the product sizes, requirements, test methods, sampling rules, judgment rules and product instructions, packaging, transportation and storage for outdoor sportswear - water resistant garments.

This document is applicable to the identification of the quality of water resistant garments made mainly of textile fabrics.

This document does not apply to water resistant garments for infants and toddlers aged 36 months and under.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 250, *Textiles -- Tests for color fastness -- Grey scale for assessing change in color*

GB/T 1335.1, *Standard sizing systems for garments -- Men*

GB/T 1335.2, *Standard sizing systems for garments -- Women*

GB/T 1335.3, *Standard sizing systems for garments -- Children*

GB/T 2910 (all parts), *Textiles -- Quantitative chemical analysis*

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

GB/T 3917.2, *Textile -- Tear properties of fabrics -- Part 2: Determination of tear force of pant-shaped test specimens (Single tear method)*

GB/T 3920, *Textiles -- Tests for color fastness -- Color fastness to rubbing*

GB/T 3921-2008, *Textiles -- Tests for color fastness -- Color fastness to washing with soap or soap and soda*

GB/T 3922, *Textiles -- Tests for color fastness -- Color fastness to perspiration*

6.1.1 Fiber content

It shall be implemented in accordance with the provisions of GB/T 2910 (all parts), GB/T 38015, FZ/T 01057 (all parts), FZ/T 01026, etc.

6.1.2 Formaldehyde content

According to GB/T 2912.1.

6.1.3 pH value

According to GB/T 7573.

6.1.4 Odor

According to GB 18401.

6.1.5 Degradable carcinogenic aromatic amine dyes

According to GB/T 17592.

6.1.6 Perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA)

According to GB/T 31126.

6.1.7 Dimensional change after washing

Take 3 specimens from the sample. Test according to GB/T 8630. Wash according to the 4N program of A-type washing machine in GB/T 8629-2017. Select "Standard Detergent 3" as the detergent. Select A-hanging and drying as the drying program. Wash once. Take the arithmetic mean of the 3 specimens as the test result. If there are shrinkage and elongation test results at the same time, take the arithmetic mean of the 2 specimens with the same shrinkage (or elongation) as the test result. The final result is rounded according to GB/T 8170, retaining one decimal place.

6.1.8 Pilling

It shall be implemented in accordance with Parameter D in GB/T 4802.1-2008.

6.1.9 Wear resistance

According to GB/T 21196.2, wool abrasive is used. The total effective mass of friction load is (595 ± 7) g (nominal pressure is 9 kPa).

6.1.10 Tearing strength

According to GB/T 3917.2.

6.1.11 Seam strength of back crotch seam

Follow the provisions of Method 3 in GB/T 8427-2019. When the difference between the ratings of each stage exceeds half a grade, the average light fastness shall be used for determination.

6.1.18 Surface moisture resistance

Follow the provisions of GB/T 4745. Washing method follows the provisions of 4N program of A-type washing machine in GB/T 8629-2017. Use "Standard Detergent 3" as detergent. Use A-hang to dry as drying program. Wash 3 times. Hang to dry after each wash.

6.1.19 Hydrostatic pressure

Fabrics with elastic elongation $\geq 10\%$ in either warp (vertical) or weft (horizontal) direction are tested according to the method for determining the final hydrostatic pressure value in FZ/T 01004-2008. The water pressure rise rate is (6.0 ± 0.3) kPa/min. The test end point is in accordance with GB/T 4744. Other fabrics are in accordance with GB/T 4744. The hydrostatic pressure sampling location at the seam is the flat seam tape (except the cross section). The lowest hydrostatic pressure value of the fabric and the fabric seam is used as the hydrostatic pressure value of the sample for determination.

The washing method shall be in accordance with the washing method for surface moisture resistance in 6.1.18.

The tensile elastic elongation is tested according to FZ/T 01034. The fixed force value is 25 N.

6.1.20 Moisture permeability

The test conditions a) and method B (inverted cup method) in GB/T 12704.2-2009 shall be followed. The washing method shall be followed as specified in 6.1.18 on the washing method for surface moisture resistance.

6.1.21 Buttons, decorations, zippers and other accessories

The accessible sharp edges and sharp points shall comply with the provisions of GB/T 31702. Other tests shall refer to 6.2.1 and 6.2.2 of the appearance quality inspection method.

6.1.22 Residual metal needle inspection

It is implemented in accordance with GB/T 24121. The detection sensitivity (standard iron ball test card) is 1.0 mm.

6.1.23 Appearance after washing

After washing and drying according to the water washing size change test method specified in 6.1.7, evaluate in combination with Table 1.

8.1.1.2 If the test results of color fastness to soap washing, color fastness to perspiration, color fastness to rubbing, color fastness to water and color fastness to light are qualified, the batch of products will be judged as qualified. If the test results of color fastness to soap washing, color fastness to perspiration, color fastness to rubbing, color fastness to water and color fastness to light are unqualified, the batch of products will be judged as unqualified according to color.

8.1.1.3 If the inspection results of other items are qualified, the batch of products will be deemed qualified. If the inspection results of other items are unqualified, the batch of products will be deemed unqualified.

8.1.2 Single piece determination

If the number of product inspection pieces is lower than the number of sampling pieces for batch determination, only the inspected samples shall be determined in accordance with 7.1.1 and this shall be noted in the inspection report.

8.2 Appearance quality

The appearance quality grade of finished products is determined by the presence and severity of defects. The individual products in the sample are graded by the number of defects and their severity. The batch grade is divided by the quality ratio of the individual products in the sample.

Single piece (sample)

Superior products: Serious defects = 0 Major defects = 0 Minor defects ≤ 4

First-class products: Serious defects = 0 Major defects = 0 Minor defects ≤ 7 or

Serious defects = 0 Major defects = 1 Minor defects ≤ 3

Qualified products: Serious defects = 0 Major defects = 0 Minor defects ≤ 8 or

Serious defects = 0 Major defects = 1 Minor defects ≤ 6

Batch (sample)

Superior batch: the number of superior products in the appearance sample is $\geq 90\%$, and the number of first-class products and qualified products is $< 10\%$ (excluding unqualified products).

First-class batch: the number of first-class and above products in the appearance sample is $\geq 90\%$, and the number of qualified products is $< 10\%$ (excluding unqualified products).

Qualified batch: The number of qualified products in the appearance sample is $\geq 90\%$, and the number of unqualified products is $< 10\%$ (excluding unqualified products with

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