

**The Committee for Conformity Assessment of Accreditation and Certification
on Functional and Technical Textiles**

Specified Requirements of Jogging Clothing

Document No.: FTTS-GA-025

Confidential Level:

Issued Date: December 24, 2013

Revised Date:

Planning Unit: Specified Requirement Execution Team

Issue Stamp:

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Document Revision History

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Edition	Revision Reason and Content Description	Revised Page	Revised Date
1.0	New issuance		December 24, 2013

1. Applicable Scope:

This Standard applies for assessment and test method of basic quality and functional requirement for jogging clothing (see appendix).

2. Grade Standard:

2.1 Basic quality requirements

Table 1. Basic quality requirements

No.	Item		Grade
1	Wash durability ⁽¹⁾	Fade	Over grade 4
		Pollution	
2	Sweat durability ⁽¹⁾	Fade	Over grade 4
		Pollution	
3	Friction durability ⁽¹⁾	Dry friction	Over grade 4
		Wet friction	Over grade 3~4
4	Light durability ⁽¹⁾		Over grade 4
5	Textile size change (%)		Synthesis fiber and hybrid fabric: -5~+2%
			Others: -8~+3%
6	Seam efficiency (%)		Over 80%
7	Diffusion ability (diffusion area, mm ²)		Over 1500
8	Drying speed (remaining moisture, %)		Below 13
9	Moisture absorption- drop ⁽²⁾ (second)	Knit	Below 2
		Weave	Below 5
10	Moisture absorption - core absorption (mm)		Over 130

Remark (1). The functional color like fluorescence, light reflection or special color decided by the interested parties.

Remark (2). Moisture absorption - the drop method is graded by the averaged value of "no special reflection time".

2.2 Functional requirements

2.2.1 Textile air-permeability

The air-permeability reaches over 180mm/sec under the test area 20cm² and pressure 100 Pa.

2.2.2 UV protection

The UV protection factor (UPF) for textile reaches over 25 according to CNS 15001 after washed 20 times (in compliance with 2.3).

2.2.3 Textile antibacterial

The antibacterial activity for textile (staphylococcus aureus and streptococcus pneumoniae) reaches over 2.0 according to CNS 20743 after washed 20 times (method and agent in compliance with 2.3 and 3.2 (10) of CNS 14945).

2.2.4 Test method for moisture conduction

Table 2. Grade for textile moisture conduction

Upper-layer wet time (sec)	Low-layer moisture absorption (%/sec)	Low-layer diffusion radius (mm)	Low-layer diffusion speed (mm/sec)	One-way conduction index (R)	Moisture absorption
below 5	over 50	over 18	over 3.0	over 400	over 0.60

2.3 Wash Durability

Table 3. Wash durability

Item	General requirement	Standard
Wash durability	Wash 20 times	(A) The knits conform to 8B in CNS 15140 Table 7 and (2) liquid wash condition in Table 3. (B) The weaves conform to 6B in CNS 15140 Table 7 and (2) liquid wash condition in Table 3.

Remark: The wash durability not only includes wash 20 times, but also can be decided by the interested parties.

3. Test Method:

3.1 Test method for wash durability: In compliance with A-2 of CNS 1494.

3.2 Test method for dirt durability: In compliance with CNS 1496.

3.3 Test method for scratch durability: In compliance with Type I of CNS 1499.

3.4 Test method for light durability: In compliance with method A of CNS 3846.

3.5 Test method for textile size change: In compliance with CNS 13752G and CNS 8038G for the knits and the weaves.

3.6 Seam efficiency: The seam efficiency is calculated according to the following formula after the strength is tested in compliance with 6.2 Test method for seam efficiency of CNS 15538 and 6.2 Breakage method of CNS 8150.

$$\text{Seam efficiency} = \text{Strength after seam} / \text{Original strength} \times 100\%$$

3.7 Test of textile moisture diffusion: In compliance with 4.1 to 4.3 of CNS 15659-1.

3.8 Test of textile moisture drying: In compliance with 4.1, 4.2 and 4.4 of CNS 15659-1.

3.9 Test of textile moisture absorption - drop absorption: In compliance with 4.5 of CNS 15659-1.

3.10 Test of textile moisture absorption - core absorption: In compliance with 4.6 of CNS 15659-1.

3.11 Test method for textile air-permeability: In compliance with CNS 5612.

3.12 Assessment of UV protection textiles: In compliance with CNS 15001.

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	Edition: 1.0
<p>3.13 Test method for textile antibacterial: In compliance with 8.1 Absorption method in ISO 20743.</p> <p>3.14 Test method for moisture conduction: In compliance with 5.4 in CNS 15659-2.</p>	
<p>4. Report:</p> <p>4.1 Grade of basic quality</p> <p>4.2 Grade of functional requirement</p>	
<p>5. References:</p> <p>CNS 15538 Knitted sport clothing</p> <p>CNS 15659-1 Assessment of textile moisture absorption - Part 1: Combination test method</p> <p>CNS 15659-2 Assessment of textile moisture absorption - Part 2: Test method for moisture conduction</p> <p>CNS 5612 Test method for textile air-permeability</p> <p>GB/T 21980 Specified standard of sport clothing and protection utility</p> <p>CNS 15001 Assessment of UV protection textiles</p> <p>ISO 20743 Textile - 8.1 Absorption method for determination of antibacterial activity of textile products</p> <p>CNS 14945 Assessment of general-purpose antibacterial textiles</p>	
<p>6. Appendix</p> <p>This Standard is reviewed by the Specified Requirement Execution Team, and issued after approved by the Committee Director. The same procedures are applied when revised.</p>	
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Appendix: Basic models for jogging clothing