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SCHOOL CLOTHING – PART. 13 - ATHLETIC WEAR

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School clothing — Part 13: Athletic wear



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School clothing — Part 13: Athletic wear

1 Scope

This part of this African standard covers the requirements for the materials, size and make of athletic wear made from woven or knitted fabrics (or both).

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.

ARS 1551, *Textiles and textile merchandise — Terms and definitions*

ARS 1552, *Standard methods of garment measurement — Code of practice*

ARS 1568-1, *School clothing — Part 1: General requirements for school clothing*

ISO 105-B02, *Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test*

ISO 105-C06, *Textiles — Tests for colour fastness — Part C06: Colour fastness to domestic and commercial laundering*

ISO 105-C10, *Textiles — Tests for colour fastness — Part C10: Colour fastness to washing with soap or soap and soda*

ISO 105-E04, *Textiles — Tests for colour fastness — Part E04: Colour fastness to perspiration*

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 3998, *Textiles — Determination of resistance to certain insect pests*

ISO 6330, *Textiles — Domestic washing and drying procedures for textile testing*

ISO 12947-1, *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 1: Martindale abrasion testing apparatus*

ISO 12947-2, *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 2: Determination of specimen breakdown*

ISO 12947-3, *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 3: Determination of mass loss*

ISO 12947-4, *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 4: Assessment of appearance change*

ISO 13934-1, *Textiles — Tensile properties of fabrics — Part 1: Determination of maximum force and elongation at maximum force using the strip method*

ISO 13935-1, *Textiles — Seam tensile properties of fabrics and made-up textile articles — Part 1: Determination of maximum force to seam rupture using the strip method*

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ISO 13935-2, *Textiles — Seam tensile properties of fabrics and made-up textile articles — Part 2: Determination of maximum force to seam rupture using the grab method*

ISO 13937-4, *Textiles — Tear properties of fabrics — Part 4: Determination of tear force of tongue-shaped test specimens (Double tear test)*

ISO 13938-1, *Textiles — Bursting properties of fabrics — Part 1: Hydraulic method for determination of bursting strength and bursting distension*

3 Terms and definitions

For the purposes of this standard, the terms and definitions in ARS 1551, ARS 1568-1 and the following definitions shall apply:

3.1

size designation

- a) **vests, T-shirts and similar garments covering the upper part of the body:** The **age** (for sizes to fit intended wearers up to twelve years), or the **Imperial size** (for sizes to fit intended wearers older than twelve years) as well as the **numerical value, in centimetres**, of the height and the chest/bust girth of the intended wearer
- b) **athletic shorts, skirts and similar garments covering the lower part of the body:** The **age** (for sizes to fit intended wearers up to twelve years), or the **Imperial size** (for sizes to fit intended wearers older than twelve years) as well as the **numerical value, in centimetres**, of the height and the hip and waist girth of the intended wearer

3.2

make

a systematic assembly and attachment of garment component parts

3.3

trims

narrow fabric generally used for the purpose of decorating or adorning furnishing **fabrics** or clothing, but often fulfilling a utilitarian function

3.4

size

a specific set of dimension for a manufactured article especially clothing

4 Materials

4.1 Woven fabric

The type and structure of the woven fabric shall be as agreed upon. The woven fabric shall comply with the requirements given in Table 1.

Table 1 — Requirements for woven fabric

1	2	3
Parameters	Requirements	Test method
a) Breaking strength , N, min.	330	6.2
b) Seaming properties :		6.3
Resistance to opening at seam, N, min.	110	
Strength at seams, N, min	165	
c) Tearing strength , median peak value, N, min.*	111	6.4
d) Dimensional changes on laundering , %, max.	3	6.5
e) Colour fastness to :		
1) Light, rating, min.	5	6.6
2) Washing, rating, min.		6.7
Change in colour	4	
Staining of adjacent clothes	4	
3) Perspiration, rating, min.		6.8
Change in colour	4	
Staining of adjacent clothes	4	
* Applicable to resin-treated fabrics only.		

4.2 Knitted fabric

The type and structure of the knitted fabric shall be as agreed upon. The knitted fabric shall comply with the requirements given in Table 2.

Table 2 — Requirements for knitted fabric

Parameters	Requirements		Test method
	Shorts and skirts	Tops	
a) Dimensional changes on laundering, % max.	+/-5	+/-5	8.5
b) Colour fastness to			
1) Light, rating, min.	5		8.6
2) Washing, rating, min.			8.7
Change in colour	4		
Staining of adjacent clothes	4		
3) Perspiration, rating, min.			8.8
Change in colour	4		
Staining of adjacent clothes	3-4		
c) Bursting strength, kPa, min.	600	300	8.9
d) Abrasion resistance:			8.10
1) Change in appearance, rating, min.	4		
2) Change in shade, rating, min.	4		

4.3 Supplementary materials and components

4.3.1 General

The supplementary materials and components shall comply with the relevant requirements given in 4.2 of ARS 1568-1.

4.4 Colour(s) of material(s) and components

The colour(s) shall be agreed upon by between the purchaser and the supplier.

5 Style, size designation, garment dimensions and make

The relevant requirements given in subclause 4.3.4 of ARS 1568-1 shall apply. The style, the size designations and the garment dimensions shall be such that the garments are comfortable to the wearer and suitable for the end use, and shall be as agreed upon.

6 Sampling

Sampling shall comply with ISO 2859-1.

7 Packing Packaging, care-labelling and marking

The requirements of clause 5 of ARS 1568-1 shall apply.

8 Inspection and methods of test

8.1 Inspection

Visually examine and measure, in accordance with ARS 1552, each garment in the sample for compliance with all the relevant requirements of this part of ARS 1568 for which tests to assess compliance are not given in 6.2-6.10 (inclusive).

8.2 Breaking strength

Use ISO 13934-1.

8.3 Seaming properties

Use ISO 13935-1/-2.

8.4 Tearing strength

Use ISO 13937-4.

8.5 Dimensional change on laundering

Use ISO 6330, procedure A, but tumble dry at 70 °C for 20 min.

8.6 Colour fastness to light

Use ISO 105-B02.

8.7 Colour fastness to washing

Use ISO 105-C10.

8.8 Colour fastness to perspiration

Use ISO 105-E04.

8.9 Bursting strength

Use ISO 13938-1.

8.10 Abrasion resistance

Use ISO 12947, but use 4 000 rubs and a pressure of 9 ± 0.2 kPa, and rate the change in appearance.

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