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SCHOOL WEAR FABRICS – PART. 3 - POLYESTER AND WOOL FABRICS

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School wear fabrics — Part 3: Polyester-wool blend fabrics



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This African Standard was prepared by the ARSO Technical Harmonization Committee Number 7 on Leather and Textile Products (ARSO/THC 07).

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School wear fabrics — Part 3: Polyester-wool blend fabrics

1 Scope

This part of ARS 1567 covers the requirements for polyester-wool blend fabrics suitable for use in the manufacture of school clothing.

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 1456, *Soap powder or chips — Specification*

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

ARS 1567-1, *Schoolwear fabrics — Part 1: Basic requirements*

ASTM D629, *Standard Test Methods for Quantitative Analysis of Textiles*

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-D01, *Textiles — Tests for colour fastness — Part D01: Colour fastness to dry cleaning*

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

ISO 105-X12, *Textiles — Tests for colour fastness — Part X12: Colour fastness to rubbing*

ISO 137, *Wool — Determination of fibre diameter — Projection microscope method*

ISO 139, *Textiles — Standard atmospheres for conditioning and testing*

ISO 1833-1, *Textiles — Quantitative chemical analysis — Part 1: General principles of testing*

ISO 1833-4, *Textiles — Quantitative chemical analysis — Part 4: Mixtures of certain protein and certain other fibres (method using hypochlorite)*

ISO 3175-2, *Textiles — Dry cleaning and finishing — Part 2: Procedures for tetrachloroethene*

ISO 3759, *Textiles — Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change*

ISO 3801, *Textiles — Woven fabrics — Determination of mass per unit length and mass per unit area*

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

ISO 5077, *Textiles — Determination of dimensional change in washing and drying*

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ISO 5089, *Textiles — Preparation of laboratory test samples and test specimens for chemical testing*

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

ISO 7211-2, *Textiles — Woven fabrics — Construction — Methods of analysis — Part 2: Determination of number of threads per unit length*

ISO 8498, *Woven fabrics — Description of defects — Vocabulary*

ISO 9073-1, *Textiles — Test methods for nonwovens — Part 1: Determination of mass per unit area*

ISO/TR 11827, *Textiles — Composition testing — Identification of fibres*

ISO 12945-3, *Textiles — Determination of the fabric propensity to surface pilling, fuzzing or matting — Part 3: Random tumble pilling method*

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*

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*

3 Definitions and abbreviations

For the purpose of this standard the terms and definitions in ARS 1551 and the following apply.

3.1 piece

unit that consists of a single article, a pair, a set or a length within a lot

3.2 lot

collection of pieces of the same product type

4 Requirements

4.1 General

The fabric shall

- a) comply with the basic requirements given in ARS 1567-1,
- b) have been made from two-ply yarns,
- c) have a clear-cut finish,
- d) be dyed and, when so required (see A.1), also have a moth-resistant finish.

4.2 Fabric

The fabric shall comply with the relevant requirements given in Table 1.

4.3 Moth resistance

The fabric shall comply, when relevant and when tested in accordance with ISO 3998.

4.4 Defects

The assessment and stringing of defects, in terms of 4.8 of ARS 1567-1, shall be in accordance with ISO 8498 and shall be based on the following AQL's:

- a) For pieces: 10
- b) For a lot: 8

Table 1 — Fabric requirements

1 Property	2 Requirement	3 Methods of test
Composition, %		ISO 1833-1 and ISO 1833-4
Polyester,	50+/-5	
Wool,	50+/-5	
Wool fibre diameter, mean, μm^a	22 or 26	ISO 137
Weave	Twill	Visual examination
Breaking strength, N, min.		ISO 13934-1
Warp	900	
Weft	750	
Seaming properties (after washing)^b		ISO 13935-1/-2
Resistance to opening at seams, N, min. ^c	150	
Seam strength, N, min. ^c	165	
Ply of yarns		Visual examination
Warp	2	
Weft	2	
Resistance to pilling^b		ISO 12945-3
Rating, min.....	3-4 (i.e. slight to moderate)	
Non-fibrous material content, %, max.	2,5	ASTM D629
Dimensional changes on washing, %, max.		ISO 6330
Warp	3	Washing procedure D
Weft	3	Drying procedure E
Colourfastness to washing, rating, min.		ISO 6330: Procedure A
Change in colour	4	
Staining of transfer cloths.....	3-4	
Colourfastness to perspiration, rating, min.		ISO 105-E04
Change in colour	4	
Staining of transfer cloths.....	3-4	
Colourfastness to rubbing, rating, min.		ISO 105-X12
Dry	4	
Wet	3-4	
Colourfastness to light, rating, min.	5	ISO 105-B02
^a Subject to a tolerance of $\pm 5\%$.		
^b After washing the test specimens in accordance with ISO 6330: Procedure B.		
^c Both warp and weft directions.		

5 Packing, labelling, marking and inspection

The relevant clauses of ARS 1567-1 shall apply (see A.1).

Annex A
(normative)

Notes to purchasers

- A.1** The following requirements shall be specified in tender invitations and in each order or contract:
- a) the colour (see 4.1, and also 4.7 of ARS 1567-1);
 - b) when relevant, that the fabric shall have a moth-resistant finish (see 4.3);
 - c) when relevant, a particular percentage fibre blend (see Table 1);
 - d) the method of packing, if other than specified (see 6.1 of ARS 1567-1); and
 - e) additional marking, if required (see 6.3 of ARS 1567-1).
- A.2** The following requirements shall be agreed upon between the purchaser and the supplier:
- a) the acceptance of split or fringe selvages (see 4.3 of ARS 1567-1); and
 - b) the fabric width (see 4.4 of ARS 1567-1).

Annex B
(informative)

Recommended end use

A fabric that complies with the requirements of this part of ARS 1567 is suitable for use in the manufacture of boys' trousers and shorts, girls' dresses, tunics and gyms, and girls' slacks and skirts.

Annex C
(informative)

Guide to manufacturers and purchasers

The fabric types given in Table C.1 have been found suitable for use in the manufacture of polyester- and-wool school clothing.

Table C.1 — Suitable fabric types

1	2	3	4
Property	Requirement		Method of test
	Type ^a		
	PW 1	PW 2	
Composition, %			ISO 1833-1 and ISO 1833-4
Wool	55 ± 5		
Polyester	45 ± 5		
Weave	2/2 "Z" twill		Visual examination
Mass per unit area (free from non-fibrous material), g/m ² , min.	230	240	ISO 3801/ ISO 9073-1
Number of threads per cm, min.			ISO 7211-2
Warp	24	26	
Weft	21	23	
^a Designation by the type number is restricted to fabrics that comply with the above requirements.			

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