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SCHOOL WEAR FABRICS – PART. 8 - WARP KNITTED FABRICS

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School wear fabrics — Part 8: Warp knitted 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 8: Warp knitted fabrics

1 Scope

This part of this African Standard covers the specific requirements for one type of warp-knitted fabric 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.

AATCC test method 20, *Fiber analysis: Qualitative*

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

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

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

ASTM D8007, *Standard Test Method for Wale and Course Count of Weft Knitted Fabrics*

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*

ARS 1567-8:2017(E)

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

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 9866-2, *Textiles — Effect of dry heat on fabrics under low pressure — Part 2: Determination of dimensional change in fabrics exposed to dry heat*

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*

ISO 23606, *Textiles — Knitted fabrics — Representation and pattern design*

3 Terms and definitions

For the purpose of this standard the terms and definitions in ARS 1551 and the following shall 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 heat-set, and
- c) have a white or a dyed finish (see A.1).

4.2 Knitted structure

The structure of the fabric shall, in terms of 4.2 of ARS 1567-1 and as determined by visual

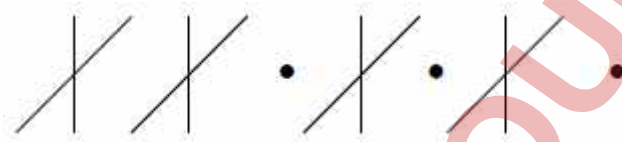
examination, be a warp-knitted piqué that has been made on a machine fitted with three guide bars that lap and are threaded as follows:

Lapping

- 1) Back guide bar: Closed satin lap.
- 2) Middle guide bar Closed tricot lap.
- 3) Front guide bar Closed tricot lap in the direction opposite to that of the middle guide bar.

a) Threading

- 1) Back guide bar Fully threaded.
- 2) Middle and front guide bar Part-set threading that has the following repeat:



NOTE The technical face-side of the fabric shows a marked rib effect that is intended for use as the face-side of the garment.

4.3 Fabric

The fabric shall comply with the appropriate requirements given in table 1.

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	2	3
Property	Requirement	Method of test
	Type ^a	
	CFP 1 ^b	
Composition, %		AATCC 20
Continuous-filament polyester	100	
Mass per unit area (free from non-fibrous material), g/m ² , min.	260	ISO 3801/ ISO 9073-1
Number of wales and courses per centimetre ^c		ASTM D8007
Wales.	8.5 – 9.5	
Courses.	14.5 – 15.5	
Dimensional changes on washing, % , max.		ISO 6330
Length	+/-3	washing procedure B
Width	+/-3	drying procedure E
Dimensional changes and skewness on exposure to heat, % , max.		ISO 9866-2
Dimensional changes		
Length	3	
Width	3	
Skewness	2.5	
Colourfastness to washing , rating, min.		ISO 105-C06
Change in colour	4	
Staining of adjacent fabrics.....	3-4	
Colourfastness to perspiration , rating, min.		ISO 105-E04
Change in colour	4	
Staining of adjacent fabrics.....	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 Designation by the type number is restricted to fabric that complies with the above requirements. ^b Fabric construction identical to the relevant type given in ISO 23606. ^c Determined on the technical face-side of the fabric.		

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 finish and, in the case of a plain dyed fabric, the colour (see 3.1 and 4.7 of ARS 1567-1);
- b) the method of packing, if other than as specified (see 6.1 of ARS 1567-1); and
- c) additional marking, if required (see 6.3 of ARS 1567-1).

A.2 The following requirement shall be agreed upon between the purchaser and the supplier:
the fabric width (see 4.4 of ARS 1567-1)

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