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SCHOOL WEAR FABRICS – PART. 7 - FABRICS CONTAINING TEXTURED YARNS

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B.P.: 14966 Yaoundé – CAMEROUN – Tél: 6992 257 777 /Fax.: (237) 222 22 64 96
E-mail : enquetepublique@anor.cm – www.anor.cm/enquetes-publiques

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School wear fabrics — Part 7: Fabrics containing textured yarns



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ARSO Central Secretariat
International House 3rd Floor
P. O. Box 57363 — 00200 City Square
NAIROBI, KENYA

Tel. +254-20-2224561, +254-20-3311641, +254-20-3311608

E-mail: arso@arso-aran.org

Web: www.arso-aran.org

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ARSO Central Secretariat
International House 3rd Floor
P.O. Box 57363 — 00200 City Square
NAIROBI, KENYA

Tel: +254-20-2224561, +254-20-3311641, +254-20-3311608

E-mail: arso@arso-oran.org
Web: www.arso-oran.org

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School wear fabrics — Part 7: Fabrics containing textured yarns

1 Scope

This part of ARS 1567 covers the requirements for fabrics, of two weave structures, containing textured yarns and 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, *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 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 dyed finish (see A.1).

4.2 Fabric

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

4.3 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	4
Parameters	Requirement		Method of test
Composition, %			AATCC 20
Textured continuous-filament polyester.....		100	
Weave ^a	Plain		Visual examination
		Twill	
Breaking strength, N, min.			ISO 13934-1
Warp	1 220		1 300
Weft.....	870		1 170
Seaming properties (after washing) ^b			ISO 13935-1/-2
Resistance to opening at seams, N, min. ^c		150	
Seam strength, N, min. ^c		165	
Removable non-fibrous material content, %, max.		5	ASTM D629
Dimensional changes on washing, % max.			ISO 6330
Warp		+/-2	Washing procedure A1
Weft.....		+/-2	Drying procedure E
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

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 weave structure required (see table 1);
- c) the method of packing, if other than as specified (see 6.1 of ARS 1567-1); and
- d) 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

The recommended end use for the weave structures of fabrics that comply with the requirements of this part of ARS 1567 is given in Table B.1.

Table B.1 — Recommended end use for weave structures

1	2
Weave structure	End use
Twill	Boys' trousers and shorts
Twill	Shirts
Plain or twill	Girls' dresses, tunics and gyms
Plain or twill	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 school clothing.

Table C.1 — Suitable fabric types

1	2	3	4
Property	Requirement		Method of test
	Type ^a		
	TP4	TP5	
Weave	Plain	2/2 twill	Visual examination
Mass per unit area (free from non-fibrous material), g/m ² , min.	170	215	ISO 3801/ ISO 9073-1
Number of threads per cm, min.			
Warp	25	26	ISO 7211-2
Weft	18	24	
^a Designation by the type number is restricted to fabrics that comply with the above requirements.			

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