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SCHOOL WEAR FABRICS – PART. 5 - POLYESTER AND COTTON FABRICS

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School wear fabrics — Part 5: Polyester and cotton fabrics



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School wear fabrics — Part 5: Polyester and cotton fabrics

1 Scope

This part of ARS 1567 covers the requirements for polyester-and-cotton fabrics, of two weave structures, 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, *School wear 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 1833-11, *Textiles — Quantitative chemical analysis — Part 11: Mixtures of cellulose and polyester fibres (method using sulfuric acid)*

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.

4 Requirements

4.1 General

The fabric shall

- a) comply with the basic requirements given in ARS 1567-1,
- b) have been made from single yarns,
- c) have been singed and heat-set, and
- d) have a bleached, or a dyed or a printed pattern of the required design and colour(s) (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: 12
- b) For a lot: 10

Table 1 — Fabric requirements

1	2	3	5
Property	Requirement		Method of test
Composition, % Polyester, min. Cotton, max.	50 50		ISO 1833-1 and ISO 1833-11
Weave^a	Hardcord	Twill	Visual examination
Breaking strength, N, min. Warp Weft	660 400	860 310	ISO 13934-1
Seaming properties (after washing)^b Resistance to opening at seams, N, min.^c Seam strength, N, min.^c	150 165		ISO 13935-1/-2
Yarn Warp Weft	1 1		Visual examination
Resistance to pilling^b Rating, min.	3-4 (i.e. slight to moderate)		ISO 12945-3
Removable non-fibrous material content, %, max.	5		ASTM D629
Dimensional changes on washing, % max. Warp Weft	2 2		ISO 6330 Washing procedure A1 Drying procedure E
Colourfastness to washing, rating, min. Change in colour..... Staining of transfer cloths.	4 3-4		ISO 6330: Procedure C
Colourfastness to perspiration, rating, min. Change in colour..... Staining of adjacent fabrics	4 3-4		ISO 105-E04
Colourfastness to rubbing, rating, min. Dry Wet	4 3-4		ISO 105-X12
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) when a printed pattern is required, the design and colour(s) (see 3.1 and 4.7 of ARS 1567-1);
- c) the weave structure required (see Table 1);
- d) when relevant, that a particular percentage fibre blend is required (see table 1);
- e) the method of packing, if other than as specified (see 6.1 of ARS 1567-1); and
- f) 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 the standard 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
Cord or twill	Girls' dresses, tunics and gyms

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-cotton school clothing.

Table C.1 — Suitable fabric types

1	2	3	4	5
Property	Requirement			Methods of test
	Type ^a			
	PC 1	PC 2	PC 3	
Composition, %				ISO 1833-1 and ISO 1833-11
Polyester		65 ± 5		
Cotton		35 ± 5		
Weave	Haircord	2/1 twill		Visual inspection
Mass per unit area (free from non-fibrous material), g/m ² , min.	125	145	180	ISO 3801/ ISO 9073-1
Number of threads per cm, min.				ISO 7211-2
Warp	41	49	44	
Weft	26	23	24	
^a Designation by the type number is restricted to fabrics that comply with the above requirements.				

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