

DRAFT UGANDA STANDARD

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School Clothing — Part 11: Athletic wear



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Requests for permission to reproduce this document should be addressed to

The Executive Director
Uganda National Bureau of Standards
P.O. Box 6329
Kampala
Uganda
Tel: +256 417 333 250/1/2
Fax: +256 414 286 123
E-mail: info@unbs.go.ug
Web: www.unbs.go.ug

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Foreword

Uganda National Bureau of Standards (UNBS) is a parastatal under the Ministry of Trade, Industry and Cooperatives established under Cap 327, of the Laws of Uganda, as amended. UNBS is mandated to coordinate the elaboration of standards and is

- (a) a member of International Organisation for Standardisation (ISO) and
- (b) a contact point for the WHO/FAO Codex Alimentarius Commission on Food Standards, and
- (c) the National Enquiry Point on TBT Agreement of the World Trade Organisation (WTO).

The work of preparing Uganda Standards is carried out through Technical Committees. A Technical Committee is established to deliberate on standards in a given field or area and consists of key stakeholders including government, academia, consumer groups, private sector and other interested parties.

Draft Uganda Standards adopted by the Technical Committee are widely circulated to stakeholders and the general public for comments. The committee reviews the comments before recommending the draft standards for approval and declaration as Uganda Standards by the National Standards Council.

The committee responsible for this document is Technical Committee UNBS/TC 7, *Textile, Leather, Paper and Related Products*, Subcommittee SC 1, *Textile and Related products*.

DUS 1687 consists of the following parts, under the general title School Clothing:

Part 1: General requirements for school clothing.

Part 2: Blazers.

Part 3: Trousers and shorts.

Part 4: Shirts.

Part 5: Dresses, tunics and gyms.

Part 6: Girls' slacks and skirts.

Part 7: Knee-high stockings and ankle socks.

Part 8: Jerseys and cardigans.

Part 9: Briefs.

Part 10: Tracksuits.

Part 11: Athletic wear.

Introduction

NOTE

- a) requirements that must be specified by the purchaser and those that must be agreed upon between the manufacturer and the purchaser are listed in annex A; and
- b) information regarding the verification of the quality of Athletic wear and a sampling plan that could be used to assess compliance of a lot of Athletic wear with this part of DUS 1687 are given in Annex B of DUS 1687-1

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School Clothing — Part 11: Athletic wear

1 Scope

This part of DUS 1687 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 referred to in the text in such a way that some or all of their content constitutes requirements 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.

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

DUS 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*

DUS 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*

US 578, *Determination of tearing strength*

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

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

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

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

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

DUS 1687-1, *School clothing — Part 1: General requirements for school clothing*

3 Definitions

For the purposes of this part of DUS 1687 the definitions given in DUS 1687-1 and the following definitions shall apply:

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; and

- 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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

ISO Online browsing platform: available at <http://www.iso.org/obp>

4 Materials

4.1 Woven fabric

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

4.2 Knitted fabric

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

4.3 Supplementary materials and components

The supplementary materials and components shall comply with the relevant requirements given in 4.2 of DUS 1687-1.

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

The colour(s) of the material(s) and components shall be an acceptable match to the required colour(s) as agreed upon between the purchaser and the supplier.

5 Style, size designation, garment dimensions and make

The relevant requirements given in sub clause 4.3.4 of DUS 1687-1 shall apply. The style, the size designations and the garment dimensions should be such that the garments are comfortable to the wearer and suitable for the end use, and shall be as agreed upon between the purchaser and the supplier.

Table 1— Requirements for woven fabric

1	2	3
Property	Requirements	Test method subsection
Breaking strength, N, min	330	7.2
Seaming properties		7.3
Resistance to opening at seam, N, min	110	
Strength at seams, N, min	165	
Tearing strength, median peak value, N, min.*	111	7.4
Dimensional changes on laundering, % max	3	7.5

Colour fastness to:		
Light, rating, min	5	7.6
Washing, rating, min	4	7.7
Change in colour		
Staining of transfer cloths	4	
Perspiration, rating, min.		
Change in colour	4	7.8
Staining of transfer cloths	4	
* Applicable to resin-treated fabrics only		

Table 2— Requirements for knitted fabric

1	2		3
Property	Requirements		Test method subsection
	Shorts and skirts	Tops	
Dimensional changes on laundering, % max	5	8	7.5
Colour fastness to:			
Light, rating, min	5		7.6
Washing, rating, min.			7.7
Change in colour	4		
Staining of transfer cloths	4		
Perspiration, rating, min.			7.8
Change in colour	4		
Staining of transfer cloths	3-4		
Bursting strength, kPa, min	600	300	7.9
Abrasion resistance:			7.10
Change in appearance, rating, min	4		
Change in shade, rating, min	4		

6 Packing, care-labelling and marking

The requirements of clause 5 of DUS 1687-1 shall apply.

7 Inspection and methods of test

7.1 Inspection

Visually examine and measure each garment in the sample for compliance with all the relevant requirements of this part of DUS 1687 for which tests to assess compliance are not given in 7.2-7.10 (inclusive).

7.2 Breaking strength

Use US ISO 13938-1.

7.3 Seaming properties

DUS ISO 13935-1 and DUS ISO 13935-2

7.4 Tearing strength

Use US 578.

7.5 Dimensional change on laundering

Use US ISO 5077, procedure A, but tumble dry at 70°C for 20 min

7.6 Colour fastness to light

Use US ISO 105-B02.

7.7 Colour fastness to washing

Use US ISO 105-C10.

7.8 Colour fastness to perspiration

Use US ISO 105-E04.

7.9 Bursting strength

Use US ISO 13938-1.

7.10 Abrasion resistance

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

Annex A
(normative)

Notes to purchasers

A.1 The following requirement must be specified in tender invitations and in each order or contract:
the colour(s) of the material (see clause 4.4).

A.2 The following requirements must be agreed upon between the manufacturer and the purchaser:

- a) the type and structure of the material (see clauses 4.1 and 4.2); and
- b) the style, size and dimensions of the garments (see clause 5.).

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