

DRAFT UGANDA STANDARD

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School wear fabrics — Part 8: Warp-Knitted fabrics

DRAFT FOR PUBLIC REVIEW



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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 co-ordinate 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 1700 consists of the following parts, under the general title School Clothing:

Part 1: Basic requirements

Part 2: Blazer fabrics

Part 3: Polyester and wool fabrics

Part 4: Polyester and viscose fabrics

Part 5: Polyester and cotton fabrics

Part 6: Shirting and blouse fabrics

Part 7: Fabrics containing textured yarns

Part 8: Warp knitted fabrics

School wear fabrics — Part 8: Warp-knitted fabrics

1 Scope

This part of DUS 1700 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 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 1779, *Standard Test Method for Wale and Course Count of Weft Knitted Fabrics*

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

DUS 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*

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

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

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

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

DUS 1700-1, *School wear fabrics — Part 1: General requirements*

3 Requirements

3.1 General

The fabric shall

- a) comply with the basic requirements given in DUS 1700-1;
- b) have been heat-set; and
- c) have a white or a dyed finish (see A.1).

3.2 Knitted structure

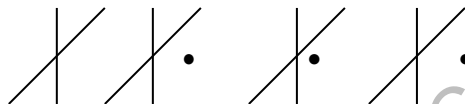
The structure of the fabric shall, in terms of 4.2 of DUS 1700-1 and as determined by visual examination, be a warp-knitted piqué that has been made on a machine fitted with three guide bars that lap and are threaded as follows:

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.

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.

3.3 Fabric

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

3.4 Defects

The assessment and stringing of defects, in terms of 4.8 of DUS 1700-1, shall be based on the following LAQ's:

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

Table 1—Fabric requirements

1	2	3
Property	Requirement	US number (unless otherwise indicated)
	Type ^a	
	NKU6	
Composition, % Continuous filament....polyester	100	US ISO 1833-1
Mass per unit area (free from non-fibrous material), g/m ² , min	260	US ISO 3801/DUS ISO 9073-1
Number of wales and courses per centimeter^b Wales,		DUS 1779

min	8.5	
max	9.5	
Courses,		
Min	14.5	
max	15.5	
Dimensional changes on washing, %, max		US ISO 5077
Length	3	
Width	3	
Dimensional changes and skewness on exposure to heat, %, max		DUS ISO 9866-2
Dimensional changes		
Length	3	
Width	3	
skewness	2.5	
Colour fastness to washing, rating, min:		US ISO 105-C10
Change in colour	4	
Staining of transfer cloths	3-4	
Perspiration, rating, min:		US ISO 105-E04
Change in colour	4	
Staining of transfer cloths	3-4	
Rubbing, rating, min:		US ISO 105-X12
Dry	4	
Wet	3-4	
Light, rating, min	5	US ISO 105-B02
a Designation by the type number is restricted to fabric that complies with the above requirements.		
b.Determined on the technical face-side of the fabric.		

4 Packing, labelling, marking and inspection

The relevant clauses of DUS 1700-1 shall apply (see A.1)

Annex A

(Normative)

Note 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 DUS 1700-1);
- b) the method of packing, if other than as specified (see 6.1 of DUS 1700-1); and
- c) additional marking, if required (see 6.3 of DUS 1700-1).

A.2 The following requirement shall be agreed upon between the purchaser and the supplier:

The fabric width (see 4.4 of DUS 1700-1)

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Annex B
(Informative)

Recommended end use

Fabric of Type NKU6 is recommended for use in the manufacture of boys' school wear trousers and shorts

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