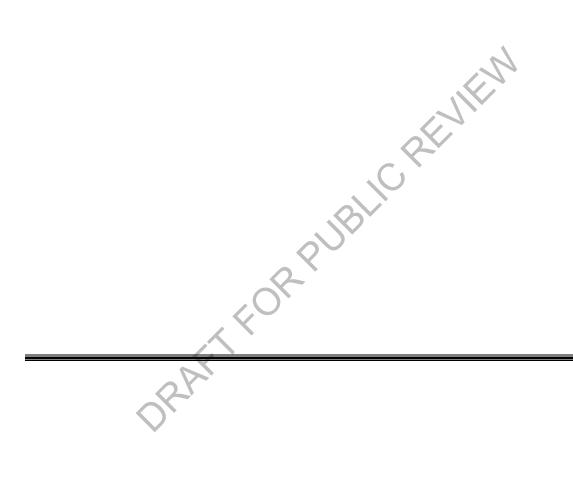
DUS 1700-3

DRAFT UGANDA STANDARD

First Edition 2017-mm-dd

School wear fabrics – Part 3: Polyester and wool fabrics





Reference number DUS 1700-3:2017

© UNBS 2017

Compliance with this standard does not; of itself confer immunity from legal obligations

A Uganda Standard does not purport to include all necessary provisions of a contract. Users are responsible for its correct application

© UNBS 2017

FIFORPUBLICATION All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilised in any form or by any means, electronic or mechanical, including photocopying and microfilm, without prior written permission from UNBS.

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

Contents

Forewo	ord	iv			
1	Scope	5			
2	Normative references				
3 3.1 3.2 3.3 3.4	General Fabric Moth resistance Defects	6 6 6 6			
4	Packing, labelling, marking and inspection	7			
Annex	A (Normative) Note to purchasers	8			
Annex	B (Informative) Recommended end use	9			
Annex	C (Informative) Guide to manufacturers and purchasers	10			
	or (monume) once to management of and particular	nts			

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].

SPPI

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 3: Polyester and wool fabrics

1 Scope

This part of DUS 1700 covers the requirements for polyester-and-wool fabrics 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 1789, Standard Test Methods for Quantitative Analysis of Textiles

DUS ISO 137, Wool — Determination of fibre diameter — Projection microscope method

DUS ISO 3998, Textiles - Determination of resistance to certain insect pests

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

DUS ISO 12945-3, Textiles — Determination of the fabric propensity to surface pilling, fuzzing or matting — Part 3: Random tumble pilling method

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 441-2/ISO 7211-2, Textiles — Woven fabrics — construction — Methods of analysis — Part 2: Determination of number of threads per unit length

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

US ISO 13934-1, Textiles — Tensile properties of fabrics — Part 1: Determination of maximum force

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

3 Requirements

General 3.1

The fabric shall

- a) comply with the basic requirements given in DUS 1700-1;
- b) have been made from two-ply yarns;
- c) have a clear-cut finish; and
- d) be dyed and, when so required (see A.1), also have a moth-resistant finish. EVIEN

3.2 Fabric

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

3.3 Moth resistance

The fabric shall comply, when relevant and when tested in accordance with the requirements for DUS ISO 3998

Defects 3.4

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

	2	3	
Property	Requirement	US number	
		(unless otherwise indicated)	
Composition, %		US ISO 1833-1	
Polyester, min	50		
Wool, max	50		
Wool fibre diameter, mean, µmª	22 or 26	DUS ISO 137	
Weave	Twill	Visual examination	
Breaking strength, N, min		US ISO 13934-1	
Warp	900		
weft	750		
Seaming properties(after washing)		DUS ISO 13935-1 and	

Table 1—Fabric requirements

Resistance to opening at seams, N, min ^b	150	DUS ISO 13935-2		
Seam strength, N, min ^b	165			
Ply of yarns		Visual examination		
Warp	2			
weft	2			
Resistance to pilling, Rating, min	3-4 (i.e. slight to moderate)	DUS ISO 12945-3		
Non-fibrous material content , %, max	2.5	DUS 1789		
Dimensional changes on washing , %, max		US ISO 5077		
Warp	3	~		
Weft	3	IF MA		
Colour fastness to:				
Washing, rating, min:		US ISO 105-C10		
Change in colour Staining of transfer cloths	4 3-4			
Perspiration, rating, min:	0	US ISO 105-E04		
Change in colour Staining of transfer cloths	4			
Rubbing, rating, min:		US ISO 105-X12		
Dry	4	03 130 103-712		
Wet	3-4	US ISO 105-B02		
Light, rating, min	5	03 130 103-002		
a.Subject to a tolerance of ± 5%.				
b.Both warp and weft directions				

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 colour (see 3.1, and also 4.7 of DUS 1700-1);
 - when relevant, that the fabric shall have a moth-resistant finish (see 3.3); b)
 - when relevant, a particular percentage fibre blend (see table 1); c)
 - the method of packing, if other than specified (see 6.1 of DUS 1700-1); and d)
 - additional marking, if required (see 6.3 of DUS 1700-1. e)
- The following requirements shall be agreed upon between the purchaser and the supplier: A.2
 - the acceptance of split or fringe selvedges (see 4.3 of DUS 1700-1); and or the second se a)
 - the fabric width (see 4.4 of DUS 1700-1) b)

© UNBS 2017 – All rights reserved

Annex B

(Informative)

Recommended end use

A fabric that complies with the requirements of this part of DUS 1700 is suitable for use in the manufacture of boys' trousers and shorts, girls' dresses, tunics and gyms, and girls' slacks and skirts

or the second se

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-wool school clothing.

1	2	3	4
Property	Requirement		US number
	Type ^ª		(unless otherwise indicated)
	SK45	SK51	
Composition, %			US ISO 1833-1
Wool	55±5		
Polyester	45±5		Q-v
Weave	2/2 "Z" twill		Visual examination
Mass per unit area(free from non- Fibrous material), g/m ² , min	230	240	US ISO 3801/DUS ISO 9073-1
Number of threads per cm, min.		2	US 441-2/ISO 7211-2
Warp	24	26	
Weft	21	23	
a Designation by the type number is restricted	o fabrics that comply with	the above requirement	is
DRA			

Table C.1 —Suitable fabric types

Certification marking

Products that conform to Uganda standards may be marked with Uganda National Bureau of Standards (UNBS) Certification Mark shown in the figure below.

The use of the UNBS Certification Mark is governed by the Standards Act, and the Regulations made thereunder. This mark can be used only by those licensed under the certification mark scheme operated by the Uganda National Bureau of Standards and in conjunction with the relevant Uganda Standard. The presence of this mark on a product or in relation to a product is an assurance that the goods comply with the requirements of that standard under a system of supervision, control and testing in accordance with the certification mark scheme of the Uganda National Bureau of Standards. UNBS marked products are continually checked by UNBS for conformity to that standard.

Further particulars of the terms and conditions of licensing may be obtained from the Director, Uganda National Bureau of Standards.



ORAFI FOR PUBLIC REWIEW

ICS nn.nnn.nn

Price based on nn pages