

# DRAFT UGANDA STANDARD

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## School Clothing — Part 9: Briefs

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

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# Contents

Page

Foreword .....	iv
Introduction.....	v
1 Scope .....	7
2 Normative references .....	7
3 Definitions .....	7
4 Requirements.....	8
4.1 Outer material .....	8
4.2 Supplementary materials and components .....	8
4.3 Style .....	8
4.4 Size.....	8
4.5 Make.....	9
4.5.1 Briefs.....	9
4.6 Stitches.....	9
4.6.1 General .....	9
4.6.2 Stitches.....	9
4.6.3 Number of stitches .....	9
4.7 Seams .....	9
4.8 Stitching .....	10
5 Packing, care-labelling, and marking .....	10
6 Inspection and methods of test .....	10
6.1 Inspection.....	10
6.2 Knitted structure.....	10
6.3 Composition.....	10
6.4 Stitch length .....	10
6.5 Mass per unit area .....	10
6.6 Dimensional changes on washing.....	10
6.7 Colour fastness to light .....	10
6.8 Colour fastness to washing .....	10
6.9 Colour fastness to perspiration .....	10
6.10 Bursting strength .....	10
Annex A (normative) Notes to purchasers .....	12
Annex B (normative) Additional information for the guidance of manufacturers .....	13

## 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 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 are listed in annex A.
- b) Additional information for the guidance of manufacturers is given in annex B.
- c) Information regarding the verification of the quality of briefs produced to this part of DUS 1687 and a sampling plan that could be used to assess compliance of a lot of briefs with this part of DUS 1687 are given in annex B of DUS 1687-1



# School Clothing — Part 9: Briefs

## 1 Scope

This part of DUS 1687 covers the requirements for the materials for, and the sizes and make of school briefs for girls.

## 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.

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

US ISO 4915, *Textiles — Stitch types — Classification and terminology*

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 definition shall apply:

### **sizedesignation**

the numerical value, in centimetres, of the hip girth, of the intended wearer

### **Acceptable**

Acceptable to the authority administering this standard, or to the parties concluding the purchase contract, as relevant

## 4 Requirements

### 4.1 Outer material

The fabric shall be cotton or nylon interlock fabric. A cotton fabric shall have a bursting strength, determined in accordance with 5.10, of at least 900kPa. A nylon fabric shall comply with the requirements given in table 1.

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.

(The note to sub clause 4.1 of DUS 1687-1 shall also apply)

**Table1—Nylon interlock fabric requirements**

1	2	3
Property	Requirements	Test Method subsection
<b>Knitted structure</b>	Plain interlock	5.2
<b>Composition, %</b>		5.3
Polyamide	100	
<b>Stitch length, mm</b>	3.0-3.2	5.4
<b>Mass per unit area, g/m<sup>2</sup>, min</b>	150	5.5
<b>Dimensional changes on washing, %, max</b>		5.6
Length	5	
Width	3	
<b>Colour fastness to light, rating, min</b>	5	5.7
<b>Colour fastness to washing, rating, min</b>		5.8
Change in colour	4	
Staining of transfer cloths	4	
<b>Colour fastness to perspiration, rating, min.</b>		5.9
Change in colour	4	
Staining of transfer cloths	4	
<b>Bursting strength, kPa, min</b>	1000	5.10

### 4.2 Supplementary materials and components

The supplementary materials and components shall comply with the relevant requirements laid down in DUS 1687-1.

### 4.3 Style

The briefs shall have a crutch gusset, leg cuffs, and an elasticized waist.

### 4.4 Size

The briefs shall be supplied in one (or more) of the size designations given in column 1 of table 2, and their measurements, determined in accordance with 6.1, shall be at least equal to the appropriate minima given in columns 3-7. The extensibility of the elasticized waist shall be such that the waist can be readily extended to at



least equal the maximum hip girth of the intended wearers, e.g.in the case of briefs of size designation 70-75, at least 75 cm.

**Table 2—Size range**

1	2	3	4	5	6	7
Size designation	Size code	Garment measurements cm, min				
		Hip	Waist(relaxed)	Crutch length*	Crutch width	Outside leg length
60-64	SS	45	36	42	5.5	13
65-69	S	50	40	44	6	14
70-75	M	55	44	48	6	16
76-81	L	60	48	52	7.5	18
82-87	XL	65	52	56	7.5	20
88-93	XXL	70	56	60	9	22
* Measured from the top of the front, down and over the crutch, and up to the top of the back. Measured across the narrowest part of the crutch.						

## 4.5 Make

### 4.5.1 Briefs

The briefs should have a front panel and back panel that are joined by a double gusset at the crutch. The gusset of nylon briefs shall have a lining of cotton inter lock. The waist should be ruched, and the cuffs should be bound with outer material. The width of the binding shall be in the range 10-20 mm.

## 4.6 Stitches

### 4.6.1 General

All sewing shall be in accordance with US ISO 4915.

### 4.6.2 Stitches

- Side seams and gusset: Stitch type 504.
- Leg cuffs and waist: Stitch type 402.

### 4.6.3 Number of stitches

- Stitch type 504: 50±5 per 10cm.
- Stitch type 402: 55±5 per 10cm.

## 4.7 Seams

- Side and gusset: Seam type SSa.
- Leg cuff: Seam type BSb-1.

## **4.8 Stitching**

Waist hem: Stitching type EFb-1

## **5 Packing, care-labelling, and marking**

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

## **6 Inspection and methods of test**

### **6.1 Inspection**

Visually examine and measure (except in the case of crutch length) each of the briefs in the sample for compliance with all the relevant requirements of sections 3 and 4 of this part of DUS 1687, compliance with which is not assessed by the relevant tests given in 6.3-6.10 (inclusive)

### **6.2 Knitted structure**

Determine by visual examination.

### **6.3 Composition**

Determine by microscopical examination and chemical analysis.

### **6.4 Stitch length**

Use the relevant method given in US ISO 4915.

### **6.5 Mass per unit area**

Use US ISO 3801.

### **6.6 Dimensional changes on washing**

Use US ISO 5077, procedure C, drying procedure J.

### **6.7 Colour fastness to light**

Use US ISO 105-B02.

### **6.8 Colour fastness to washing**

Use US ISO 105-C10.

### **6.9 Colour fastness to perspiration**

Use US ISO 105-E04.

### **6.10 Bursting strength**

Use US ISO 13938-1

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**Annex A**  
(normative)

**Notes to purchasers**

The following requirements must be specified in tender invitations and in each order or contract:

- a) The type and colour of outer fabric (see 4.1);
- b) The size designation(s) required (see 4.4); and
- c) Additional markings, if required (see 4.4 of DUS 1687-1).

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**Annex B**  
(normative)

**Additional information for the guidance of manufacturers**

Type of fabric	Nominal yarn linear density, tex.	Machine gauge
Cotton	17	20
Polyamide	78	20

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## Certification marking

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