

# DRAFT UGANDA STANDARD

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## Textiles — Underwear — Part 2: Briefs — Specification

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Reference number  
DUS 2139-2: 2021

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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);
- (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 315, *Textiles and related products*.

DUS 2139 consists of the following parts, under the general title *Textiles — Underwear*:

- — *Part 1: Boxer shorts — Specification*
- — *Part 2: Briefs — Specification*
- — *Part 3: Panties — Specification*

# Textiles — Underwear — Part 2: Briefs — Specification

## 1 Scope

This Draft Uganda Standard specifies requirements, sampling and test methods for briefs for men and women

## 2 Normative references

The following documents are 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 8499, *Knitted fabrics — Description of defects — Vocabulary*

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

US ISO 13938-2, *Textiles — Bursting properties of fabrics — Part 2: Pneumatic method for determination of bursting strength and bursting distension*

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

ISO 14362-1, *Textiles — Methods for determination of certain aromatic amines derived from azo colorants — Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres*

ISO 14362-3, *Textiles — Methods for determination of certain aromatic amines derived from azo colorants — Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene*

ISO 16373-2, *Textiles — Dyestuffs — Part 2: General method for the determination of extractable dyestuffs including allergenic and carcinogenic dyestuffs (method using pyridine-water)*

ISO 16373-3, *Textiles — Dyestuffs — Part 3: Method for determination of certain carcinogenic dyestuffs (method using triethylamine/methanol)*

ISO 16373-1, *Textiles — Dyestuffs — Part 1: General principles of testing coloured textiles for dyestuff identification*

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

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 (all parts), *Textiles — Quantitative chemical analysis*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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>

#### 3.1 briefs

tight-fitting underwear worn by men and women without leg portions

#### 3.2 underwear

clothing worn next to the skin beneath one's outer clothing, also called underclothes/underclothing

### 4 Requirements

#### 4.1 Fabric

##### 4.1.1 Fabric structure

The briefs shall be tailored out of well and evenly knitted fabric.

##### 4.1.2 Fibre composition and proportion

The fibre composition of the fabric shall be cotton, synthetics or their blends when tested in accordance with a relevant part of US ISO 1833.

##### 4.1.3 Fabric defects

The fabric shall be free from major defects specified in US ISO 8499 including holes, slubs, thick and thin bars, spirality and streakiness.

##### 4.1.8 Restricted colourants

The fabrics constituting the boxer shorts shall be free from restricted colourants listed and when tested in accordance with ISO 14362 Parts 1 and 3, ISO 16373, Parts 2 and 3.

Colourants on textiles shall be identified and classified in accordance with ISO 16373-1.

#### 4.2 Specific requirements for briefs

##### 4.2.1 Physical and chemical requirements

The briefs or the fabric used for the manufacture of briefs shall conform to the chemical requirements given in Table 1.

**Table 1 — Chemical and dimensional change requirements of briefs**

Parameter	Requirement	Test method
Mass per unit area, g/m <sup>2</sup> , min.	100	ISO 9073-1
Bursting strength, kPa, min.	160	US ISO 13938 - 2

Abrasion (2000 rubs), min.		No noticeable wear	US ISO 12947-1
pH value of aqueous extract		6 - 108	US ISO
Dimensional change due to washing, %, max.	Wales	$\pm 5$	US ISO 5077
	Courses	$\pm 5$	
Colour fastness of dyed briefs, min.	Light	4	ISO 105-B02
	Washing	4	ISO 105-C10
	Colour change		
	Staining		
	Perspiration	4	ISO 105-E04
	Acid		
	Alkali		
	Rubbing	4	ISO 105-X12
Dry			
Wet			

#### 4.2.2 Size designation and dimensions

4.2.2.1 A typical shape of a pair of briefs is shown in Figure.1. Generally the briefs are made of a number of fabric pieces, depending on the design, and may have double flaps (one covered with the other) with suitable front opening.

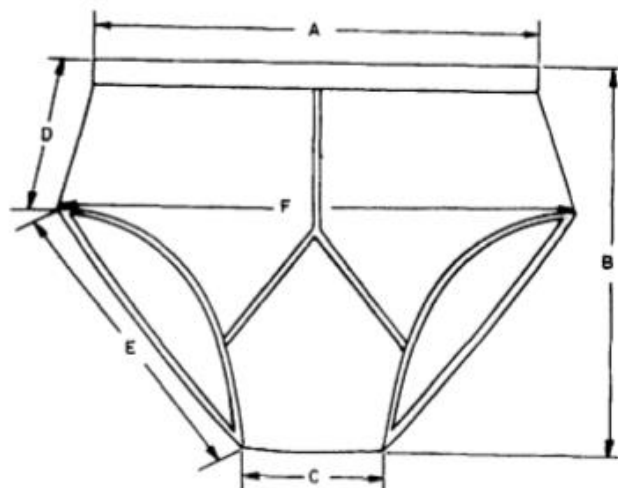


Figure 1 — A typical shape of a pair of briefs

Where;

- A- Width across waist
- B- Front length
- C- Width at bottom
- D- Side length

E- Thigh opening

F- Width across seat

**4.2.2.2** The dimensions of briefs of different sizes and designs should conform to the requirements of Table 2 when measured by the method given in Annex A. Unless otherwise, dimensions should be agreed upon between the purchaser and the manufacturer.

NOTE 1 The size of the brief is fixed according to the hip measurement of the wearer, for example, 85 size briefs are meant for wearers having hip measurement of 85 cm.

NOTE 2 The dimensions/sizes given in Table 2 and Table 3 are for guiding the manufacturer.

**Table 2 — Dimensions of women’s briefs**

Size Code	Waist (measurement around waist), cm	Hip (measurement around hips/seat), cm
XS	≤ 63	≤ 88
S	63 - 68	89 – 93
M	68 - 73	94 – 98
L	73 - 78	99 – 103
XL	78 - 83	104 – 108
XXL	≥ 83	≥ 109
NOTE 1 These dimensions are based on the British sizing system. An equivalent of the British sizing chart may be considered		

**Table 3 — Dimensions of men’s briefs**

Size Code	Waist (measurement around waist), cm	Hip (measurement around hips/seat), cm
XXS	52 - 56	70 - 75
XS	56 - 60	75 - 80
S	60 - 64	80 - 85
M	64 - 70	85 - 90
L	70 - 76	90 - 95
XL	76 - 82	95 - 100
XXL	82 - 88	100 - 105
XXXL	88 - 92	105 - 110
XXXXL	≥ 92	≥ 110
NOTE 1 These dimensions are based on the British sizing system. An equivalent of the British sizing chart may be considered		

**4.2.3 Elastic straps and bands**

Briefs shall have an elastic waistband or strap



#### 4.2.4 Seams and stitches

4.2.4.1 Briefs shall be stitched with suitable unbroken overedge stitches

4.2.4.2 The number of stitches on any stitch line shall be 3.5 – 5 per cm

4.2.4.3 When stretched along with the fabric, the seams shall not show any sign of thread breakage.

4.2.4.4 Sewing threads used for stitching shall be compatible with the main fabric used for making briefs. These threads shall be bleached or dyed according to a shade that does not discolour or stain the briefs during washing.

#### 4.2.5 Freedom from defects

The briefs shall be free from manufacturing defects such as large mends, ladders, dropped stitches, holes, cuts, missed stitches, defective stitching, uneven dyeing, stains, etc. or any other defect which may significantly mar the appearance or serviceability

### 5 Labelling

The following information shall appear in legible and indelible marking in print or on a strong, durable label that is firmly sewn near the waist band or along the side seam

- a) size;
- b) manufacturer's name, initials or trade-mark;
- c) fibre composition and proportion;
- d) washing instructions, if any; and
- e) country of manufacture.

### 6 Packaging

Only pieces of the same design and grade shall be packed together either in dozens, a carton or as specified by the customer.

### 7 Sampling and criteria for conformity

7.1 All panties of the same size delivered to a buyer against one despatch note shall constitute a lot.

7.2 The conformity of a lot to the requirements of this specification shall be determined on the basis of the tests carried out on the samples selected from the lot. All briefs shall meet the specified requirements of this specification.

7.3 The number of briefs to be selected for sampling shall be in accordance with Table 4.

**Table 4 — Sampling plan**

Number of panties in the lot	Number of panties to be tested
≤ 300	13
301 - 500	20

501 – 1 000	32
≥ 1 001	50

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## **Annex A** (normative)

### **Determination of dimensions of briefs**

#### **A.1 Principle**

Lay a piece of briefs on a flat table removing any curls and without stretching, take the measurements from one end of the brief to the other using a steel rule. Repeat the procedure for other specimens in the laboratory sample.

#### **A.2 Apparatus**

##### **A.2.1 Flat table**

**A.2.2 Steel rule**, accuracy of at least 1 mm

##### **A.2.3 Calculator**

#### **A.3 Sampling**

From a laboratory sample, take one piece of briefs and subject it to conditioning prior to testing.

#### **A.4 Conditioning**

Condition the specimen in accordance with US ISO 139.

#### **A.5 Procedure**

Take each brief constituting the test sample. Lay it flat on a table. Remove by hand all creases and wrinkles without distorting it. Measure correct to the nearest 0.5 cm the dimensions given in Table 2.

Repeat the procedure for any other specimen that may be required in the laboratory sample.

#### **A.6 Calculation and expression of results**

Take the average of the individual measurements multiplied by 2 as the dimensions



## Bibliography

- [1] IS 4046-1 (1981): Gent's Cotton Rib-Knitted Briefs - Part I : 1 x 1, 2 Ply Rib-Knitted
- [2] IS 4046-2 (1996): Textiles- Gents' cotton briefs, Part 2: Plain knitted

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## Certification marking

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