

DRAFT UGANDA STANDARD

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Textiles — Garments — Part 3: Trousers and shorts



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Foreword

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- (a) a member of International Organisation for Standardisation (ISO);
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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*.

Textiles — Garments — Part 3: Trousers and shorts

1 Scope

This Draft Uganda Standard specifies specific requirements and test methods for trousers and shorts

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 139, *Textiles — Standard atmospheres for conditioning and testing*

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

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

US ISO 12945-1, *Textiles — Determination of fabric propensity to surface fuzzing and to pilling — Part 1: Pilling box method*

US ISO 12947-1, *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 1: Martindale abrasion testing apparatus*

US ISO 13934-1, *Textiles — Tensile properties of fabrics — Part 1: Determination of maximum force and elongation at maximum force using the strip method*

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

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 trousers

outer garment covering the body from the waist to the ankles, with equal separate parts for each leg

3.2 shorts

garment worn over the pelvic area, circling the waist and splitting to cover the upper part of the legs, sometimes extending down to the knees but not covering the entire length of the leg

4 Requirements

4.1 General requirements

The trousers and shorts shall comply with the requirements specified in DUS 1970-1.

4.2 Specific requirements

4.2.1 Physical and chemical requirements

The trousers and shorts or the fabric used for the manufacture of trousers and shorts shall conform to the requirements given in Table 1.

Table 1 — Specific requirements of fabric used to manufacture trousers

Parameter		Requirement	Test method
Mass per unit area, g/m ² , min.		190	US ISO 3801 or ISO 9073-1
Breaking strength, N, min.	Warp direction	600	US ISO 13934-1
	Weft direction	400	
Tear strength (for both directions), N, min.		25	US ISO 13937-1
Bursting strength (knitted), kPa, min.		200	US ISO 13938 -2
Abrasion (2000 rubs), min.		No noticeable wear	US ISO 12947-1
Piling resistance (After 5 h of test), min.		4	US ISO 12945-1

4.2.2 Size designation and dimensions

4.2.2.1 A typical shape of trousers is shown in Figure.1.

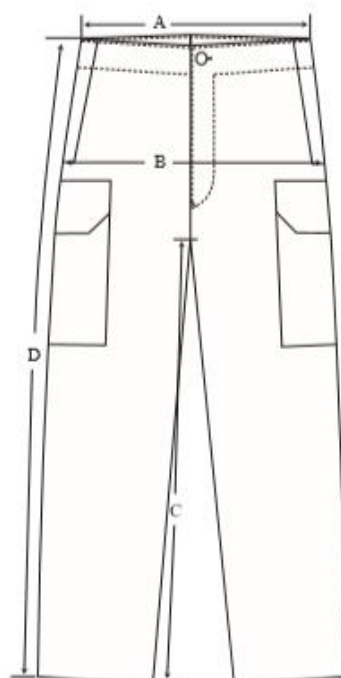


Figure 1 — A typical shape of trousers

Where;

- A- Waist circumference/ waist girth
- B- Seat circumference/hip girth
- C- Inseam length/inside leg length
- D- Outseam length/outside leg length

4.2.2.2 The dimensions of trousers of different sizes and designs should conform to the requirements of Table 2 and Table 3 when measured by the method specified in Annex A. Unless otherwise, dimensions should be agreed upon between the purchaser and the manufacturer.

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

Table 2 — Dimensions of men's and boys' trousers and shorts

Size designation	Waist girth, cm	Hip girth, cm
24	60	84
26	65	89
28	70	94
30	75	99
32	80	104
34	85	109
36	90	114
38	95	119
40	100	124
42	105	129
44	110	134
46	115	139
48	120	144
50	125	149
52	130	154
54	135	159
56	140	164
58	145	169
60	150	174
NOTE These dimensions are based on the British sizing system. An equivalent of the British sizing chart may be considered.		

Table 3 — Dimensions of women's and girls' trousers and shorts

Size designation	Low waist, cm	Hip, cm
XXS (4)	74	86
XS (6)	78	90
S (8)	82	94
M (10)	86	98
L (12)	90	102
XL (14)	94	106
XXL (16)	98	110
NOTE These dimensions are based on the British sizing system. An equivalent of the British sizing chart may be considered.		

4.2.3 Seams and stitches

The trousers and shorts shall be assembled with lock/chain stitches regulated at not less than 4 stitches per cm.

4.2.4 Hems

The bottoms of the regular trousers and shorts may be hemmed. The hem shall be sewn in place with a slip-stitch or hemming stitch for turned under or seam binding finishes and a blind stitch for overcast finishes. The completed hem shall be inconspicuous from the outside and the raw edges finished securely without bulk.

4.2.5 Securing belt loops

If the trousers are provided with belt loops, the ends of loops shall be reinforced with three rows of stitches or securely stitched.

4.2.6 Buttons and buttonholes

4.2.6.1 The buttons shall be stitched with not less than 12 stitches through each pair of hole when sewn by machine or 11 stitches of single thread and five stitches of double thread when sewn on by hand. The thread shall be wound round the stitches six times when single threads or three times when using double threads to form a neck. All ends shall be securely fastened.

Note In case of button stitching by machine, the winding of thread around the button to form a neck is not possible.

4.2.6.2 The number of stitches on buttonholes shall be not less than 8 per cm when stitching is carried out manually and not less than 9 per cm when stitched on machine. Buttonholes shall be bartacked with not less than 5 stitches or fish tailed and shall be cleanly cut. All ends of threads shall be securely fastened. The length of the buttonhole shall be 0.3 cm greater than the diameter plus the thickness of the button.

4.2.7 Outlet allowance

An outlet allowance of 4 cm in addition to the seam allowance shall be provided at the back seat seam near the waistline.

Annex A (normative)

Determination of dimensions of trousers and shorts

A.1 Principle

Lay a pair of trousers or shorts on a flat table removing any curls and without stretching, take the measurements from one end 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 pair of trousers or shorts 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 pair of trousers or shorts 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 and Table 3.

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 and double the result to obtain the dimensions

Bibliography

DKS 559-1:2019, *Men's and boys' trousers — Specification — Part 1: Making up requirements*

Public Review Draft

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