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Textiles — Garments — Part 6: Cardigans



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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);
- (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*.

Textiles — Garments — Part 6: Cardigans

1 Scope

This Draft Uganda Standard specifies requirements and test methods for cardigans.

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 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 soda*

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

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

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

US ISO 3071, *Textiles — Determination of pH of aqueous extract*

US ISO 13938 -1, *Textiles — Bursting properties of fabrics — Part 1: Hydraulic method for determination of bursting strength and bursting distension*

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>

cardigan

knitted garment having long sleeves and a two-piece front that fastens with buttons or a slide fastener

4 Requirements

4.1 General requirements

4.1.1 Cardigans shall comply with the requirements specified in DUS 1970-1.

4.1.2 The fabric used in the manufacture of cardigans shall be evenly knitted.

4.2 Specific requirements

4.2.1 Fabric defects

The fabric shall be free from major defects specified in US 417 and US 418 including holes, slubs, thick and thin bars, spirality and streakiness.

NOTE Thick places may be intentionally introduced into the cardigan as a design feature.

4.2.2 Physical and chemical requirements

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

Table 1 —Physical and chemical requirements of cardigans

Parameter		Requirement	Test method
Dimensional change due to relaxation, %, max.		5.0	US ISO 5077
Mass per unit area, min.	Wool and wool-containing	440	US ISO 9073-1
	Acrylic	335	
	Any other fibre	262	
pH value of aqueous extract	All wool	4.0 – 7.5	US ISO 3071
	Any other fibre	5.0 – 7.5	
Bursting strength, Kpa, min.	Wool and wool-containing	600	US ISO 13938 - 1 and 2
	Acrylic and other man-made fibres	600	
	Cotton	300	
Colour fastness, min.	Light	4	US ISO 105-B02
	Washing		US ISO 105-C10
	Change in colour	3	
	Staining of adjacent fabric	3	
	Rubbing		US ISO 105-X12
Dry	3		
wet	3		

4.2.3 Size designation and dimensions

4.2.3.1 A typical shape of a cardigan is shown in Figure.1. Generally, cardigans are made of a number of fabric pieces, depending on the design, and may have collars, tapes or welts.

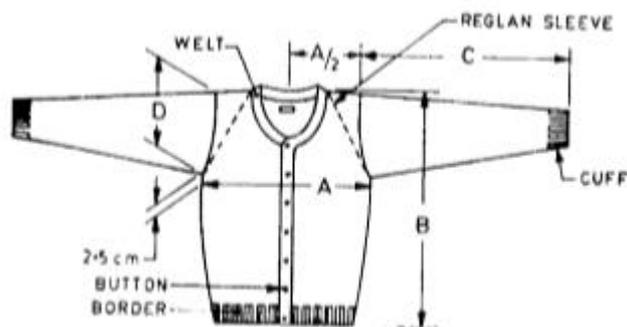


Figure 1 — A typical shape of a round neck cardigan

Where;

- A- Width across chest
- B- Length of cardigan
- C- Length of sleeves
- D- Width of opening at armhole

4.2.3.2 The dimensions of cardigans of different sizes and designs may conform to the sizes indicated in Table 2 when measured by the method given in Annex B.

NOTE The size of the cardigan is denoted by a number which is the approximate value of the chest girth in centimetres. An 80 size cardigan represents a cardigan with a chest girth of approximately 80 cm for A (see Figure 1)

Table 2 — Dimensions of cardigans

Size	Width, inches
20	10
22	11
24	12
26	13
28	14
30	15
32	16
34	17
36	18
38	19
40	20
42	21
44	22
NOTE 1 Other sizes not mentioned in the table are agreeable based on manufacturer-client agreement	
NOTE 2 The sizes can be converted to cm by	

multiplying the values by 2.54

4.2.4 Seams and stitches

- 4.2.4.1 All joining shall be stitched with three-thread overlock stitches or by linking.
- 4.2.4.2 All stitches shall be of even tension throughout with all the loose ends securely fastened.
- 4.2.4.3 Stitching shall not give way when the cardigan is stretched to one and a half times
- 4.2.4.4 The number of stitches shall not be less than 4 per cm.
- 4.2.4.5 The front opening of the cardigan may be attached with matching buttons with appropriate button-holes or slide fastness or by any other suitable way, so as to close the front opening of the cardigan while in use.

4.2.5 Border

The border at the bottom of cardigan and at the cuffs at sleeves may be preferably knitted along with the cardigan or sleeves in 1 × 1 rib or 2 × 2 rib knitted fabric, so as to have elasticity than the body of knitted cardigan and sleeves.

If the border is knitted separately it may be stitched or linked in such a way that the seams appear at the inside of the cardigan. The projecting ends of the seams, if any, may be flattened by over seaming or seam covering stitches

4.2.6 Reinforcements

The seam joining the body and the border, cuffs or sleeves or at the shoulder and other places shall be reinforced suitably at the inside, preferably by seam covering. The 'round' or tubular edges of the rib welts intended for reinforcement shall be formed by knitting three or four courses

4.2.7 Welt (Tape)

The welt meant for stitching or linking at the neck shall be rib knitted such as 1 × 1 rib or 2 × 2 or trimmed out of the fabric used in fabricating the cardigan

The width of the welt shall be at least 20 mm for the front opening in case these are buttoned cardigans. In case of collared cardigan, the collar width shall be at least 40 mm.

The welt shall be securely stitched or linked to the cardigan. The seams shall appear on the inside of the cardigan.

4.2.8 Freedom from defects

4.2.8.1 The cardigan shall be free from manufacturing and tailoring defects such as large mends, ladders, dropped stitches, stains, uneven dyeing, streakiness, improper reinforcement, missed stitches and badly sewn slide fasteners or badly fixed fasteners for front opening.

4.2.8.2 It shall also be free from grease, soap, filling or any other extraneous material.

Only pieces of the same size, style and fibre composition shall be packed together

Annex A (normative)

Determination of dimensions of cardigans

A.1 Procedure

Lay a cardigan, flat on a horizontal surface. Remove all creases and wrinkles without distorting the specimen. With the aid of a steel rule, measure correct to the nearest 5 mm, the dimensions given in Table 1.

A.2 Apparatus

A.2.1 Flat table

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

A.2.3 Calculator

Bibliography

IS 4582:1992, *Textiles — Women's cardigan, knitted — Specification*

Public Review Draft

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.

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