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DRAFT ZANZIBAR NATIONAL STANDARD

Textiles – Knitted men’s and women’s underwear pants —
Specifications

DRAFT FOR PUBLIC COMMENT

ZANZIBAR BUREAU OF STANDARDS

Foreword

This Draft Zanzibar National Standard has been prepared by Textiles and Leather Standards Technical Committee (TCC3). In accordance with the Zanzibar Bureau of Standard general procedures, this draft standard is here by presented to the public in order to receive any technical comment concerns.

The ZBS was established under the Standard Act No. 1 of 2011.

In the preparation of this Standard, the reference was made to the following source:

IS 4046:2013, *Textiles — Gents' cotton briefs — Specification*

ZNS 734-1-2025-EAS 1141-1-2024 *Textile garments — Specification — Part 1 General requirements*

Technical Committee Representatives

This Draft Zanzibar National Standard was prepared by Textiles and Leather Standards Technical Committee (TCC3) which consists of representatives from the following organizations:

Chief Government Chemist Laboratory Agency (CGCLA)

College of Engineering and Technology (CoET)

Special Department Industrial Unit (SPEDIU)

Zanzibar National Chamber of Commerce (ZNCC)

Zanzibar Fisheries and Marine Resources Research Institute (ZAFIRI)

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Textiles – Knitted men’s and women’s underwear pants — Specifications

1 Scope

This Draft Zanzibar National Standard specifies the requirements, sampling and test methods for knitted men’s and women’s underwear pants and the fabric intended in their manufacture.

This standard not applicable to menstrual and incontinence pants

2 Normative references

The following referenced documents are indispensable for the application of this draft Zanzibar National Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

ISO 105-B01, *Textiles — Tests for colour fastness — Part B01: Colour fastness to light: Daylight.*

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.*

ISO 105-D01, *Textiles — Tests for colour fastness — Colour fastness to dry cleaning.*

ISO 105-E04, *Textiles — Tests for colour fastness — Part E04: Colour fastness to perspiration.*

ISO 105-X11, *Textiles — Tests for colour fastness - Part X11: Colour fastness to hot pressing.*

ISO 105-X12, *Textiles — Tests for colour fastness — Colour fastness to rubbing.*

ISO 1833, *Textiles — Quantitative chemical analysis.*

ISO 2859-1: *Sampling procedures for inspection by attributes. Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection.*

ISO 3071, *Textiles — Determination of pH of the aqueous extract.*

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

ISO 6330, *Textiles — Domestic washing and drying procedures for textile testing.*

ISO 12945-2, *Textiles — Determination of fabric propensity to surface pilling, fuzzing or matting — Part 2: Modified Martindale method.*

ISO 8559-2, *Size designation of clothes — Part 2: Primary and secondary dimension indicators.*

ISO 13938, *Textiles — Bursting properties of fabrics*

ISO 14362, *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 22198, *Textiles — Fabrics — Determination of width and length*

3 Terms and definitions

For the purposes of this draft Zanzibar National Standard, the following term and definition shall apply;

3.1

men's underwear pants

the underwear garments such as briefs, boxers, trunks and boxer briefs worn beneath the outer clothing.

3.2

women's underwear pants

the underwear garments such as panties, briefs, hipsters, G-string, boyshorts and hongs, worn beneath the outer clothing.

3.3

inherent elasticity of the fabric

fabric itself is naturally stretchable without needing a separate elastic band sewn inside it.

4 Requirements

4.1 General requirement.

4.1.1 Fiber composition and proportion

a) The fiber composition and proportion of the knitted men's and women's underwear pants and or the fabric intended in their manufacture shall be as declared on the label, when tested in accordance with the relevant part(s) of ISO 1833.

b) Where the knitted men's and women's underwear pants and or the fabric intended in their manufacture are made from blend of two or more fibers, the fiber composition and proportion shall be as declared on the label, subject to a tolerance of ± 5 %, when tested in accordance with the relevant part(s) of ISO 1833.

4.1.2 Defects

4.1.2.1 Knitted men's and women's underwear pants and or the fabric intended in their manufacture shall be free from manufacturing and tailoring defects including but not limited to:

- a) holes;
- b) cuts;
- c) tears;
- d) spots;
- e) stains;
- f) stitching defects such as skipped stitches and uneven stitch length;
- g) seaming defects such as seam slippage, seam puckering and seam grin;
- h) loose ends;
- i) uneven dyeing;

4.1.2.2 Knitted men's and women's underwear pants and or the fabric intended in their manufacture shall also be free from any other defect which may significantly mar their appearance or affect their performance.

4.1.3 Waistband and leg opening

The waistband and leg openings of men's and women's underwear pants shall be elasticized either by:

- a) a sewn elastic strap, or
- b) the inherent elasticity of the fabric, or
- c) a combination of both.

4.2 Specific requirements

4.2.1 Fabric construction requirements

The fabrics construction requirements of men's and women's underwear pants and or the fabric intended to be used in their manufacture shall comply with the requirements given in Table 1 when tested in accordance with the test methods specified therein.

Table 1: Construction requirements of the men's and women's underwear pants and or the fabric intended to be used in their manufacture

S/NO	Characteristics	Requirements	Test methods
i.	Mass per unit area, g/m ² , min	110	ISO 3801
ii.	Piling resistance grade at 2000 rubs, min.	4	ISO 12945-2
iii.	Dimensional change due to relaxation, %, max.	Wales	ISO 6330
		Courses	
iv.	Bursting strength, kPa, min.	160	ISO 13938

4.2.2 pH requirement

When tested in accordance with ISO 3071, the pH of men's and women's underwear pants or fabrics used in their manufacture shall be 6.0 – 8.5.

4.2.3 Seam and stitches

The various portions of men's and women's underwear pants, when stitched with any the types of stitches, the number of stitches per centimeter shall be 4 stitches.

4.2.4 Colour fastness requirements

The colour of the dyed men's and women's underwear pants and or fabrics used in their manufacture shall be fast to agencies in accordance with the requirements specified in Table 2, when tested in accordance with test methods specified therein.

Table 2: Colour fastness requirements of the dyed men's and or women's underwear pants or fabrics used in their manufacture

S/NO	Colour fastness to:	Requirements	Test methods
i.	Light, min.	4	ISO 105-B01 and ISO 105-B02
ii.	Rubbing, min.	Dry	ISO 105-X12
		Wet	
iii.	Washing, min.	Change in colour	ISO 105-C10
		Staining	
iv.	Hot pressing, min	Dry	ISO 105-X11
		Wet	
v.	Dry cleaning, min	Change in colour	ISO 105-D01
		Staining	
vi.	Perspiration Acid solution & Alkaline, min	Change in colour	ISO 105-E04
		Staining	

4.2.5 Dye properties and related requirements

Dye properties and related requirements for the dyed men's and women's underwear pants and or fabrics used in their manufacture shall be non-carcinogenic and non-allergenic when tested in accordance with ISO 14362.

4.2.6 Sizes

The size for men's and women's underwear pants is as declared on the label when tested in accordance with ISO 8559-2.

4.2.7 Dimension of fabric

The fabrics roll intended for the manufacture of men's and women's underwear pants shall have a length of not less than 95% and width of not less than 98%, as indicated on the label when tested in accordance with ISO 22198.

5 Packaging and labelling

5.1 Packaging

Men's and women's underwear pants or the fabric roll intended for their manufacture shall be packed in suitable waterproof materials to avoid contamination during transportation and storage.

5.2 Labelling

5.2.1 Unit package

Each piece of men's and women's underwear pants or the fabric roll intended for their manufacture shall be legibly and indelibly labelled with the following information:

- a) name of the product;
- b) fibre composition, expressed as a percentage by mass;
- c) size of the knitted men's and women's underwear pants or length and width of fabric intended in their manufacture;
- d) care instructions, using symbols or words;
- e) name and physical address of the manufacturer, importer, or distributor;
- f) country of origin; and
- g) batch number, lot number, or production date;

5.2.2 Bulk package

Bulk packages containing men's and women's underwear pants or fabric intended for their manufacture shall be legibly and indelibly labelled with the following information:

- a) name of the product;
- b) fibre composition, expressed as a percentage by mass;
- c) name and physical address of the manufacturer, importer or distributor;
- d) country of origin;
- e) batch number, lot number or production date;
- f) net quantity (number of unit packages or length and width of fabric)

5.2.3 The language on the label shall be 'Swahili' and/or English. Additional language may be used depending on the designated market.

6 Sampling

Sampling shall be done in accordance with ISO 2859-1