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DRAFT ZANZIBAR NATIONAL STANDARD

Textiles — Wig cap — Specifications

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ZANZIBAR BUREAU OF STANDARDS

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First edition

Foreword

This Draft Zanzibar National Standard has been prepared by Textiles and Leather Standards Technical Committee. 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.

Technical Committee Representatives

This Draft Zanzibar National Standard was prepared by Textiles and Leather Standards Technical Committee 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)
The State University of Zanzibar (SUZA)
Zanzibar National Chamber of Commerce (ZNCC)
Zanzibar Fisheries and Marine Resources Research Institute (ZAFIRI)
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Textiles — Wig cap — Specifications

1 Scope

This Draft Zanzibar National Standard specifies the requirements, sampling and test methods for wig cap and the fabrics intended in their manufacture.

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-C10, *Textiles — Tests for colour fastness — Part C10: Colour fastness to washing with soap or soap and soda.*

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

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

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

ISO 13934-2, *Textiles — Tensile properties of fabrics. Part 2: Determination of maximum force using the grab method*

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

ISO 14184-1, *Textiles — Determination of formaldehyde. Part 1: Free and hydrolysed formaldehyde (water extraction method)*

ISO 14184-2, *Textiles — Determination of formaldehyde. Part 2: Released formaldehyde (vapour absorption method)*

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 14389, *Textiles — Determination of the phthalate content — Tetrahydrofuran method*

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)*

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ISO 20932-1, *Textiles — Determination of the elasticity of fabrics. Part 1: Strip tests*

ISO 20932-3, *Textiles — Determination of the elasticity of fabrics — Part 3: Narrow fabrics*

3 Terms and definitions

For the purposes of this draft Zanzibar National Standard, the following terms and definitions apply;

3.1
wig cap (wig cap liner)
head covering made from elastic or non-elastic textile materials or their blends, designed to secure the wearer's natural hair and/or support the wig.

3.2
open-mesh wig caps
wig cap constructed from fabric with open spaces between the yarns

3.3
closed-structure wig caps
wig cap constructed from continuous textile fabric without an open-mesh structure

4 Requirements

4.1 General Requirements

4.1.1 Materials
The wig cap shall be manufactured from suitable textile materials that are safe for prolonged skin contact.

4.1.2 Workmanship
The wig cap shall:

a) be clean and free from dirt and foreign matter;
b) have uniform construction;
c) have securely finished edges; and
d) be free from sharp edges or protruding components that may cause discomfort.

4.1.3 Defects
4.1.3.1 wig cap and or the fabric intended to be used in their manufacture shall be free from manufacturing and tailoring defects including but not limited to:

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

4.1.3.2 wig cap and or the fabric intended to be used in their manufacture shall also be free from any other defect which may significantly mar their appearance

4.1.4 Comfort
The wig cap shall:

a) fit comfortably on the head;
b) provide adequate ventilation;
c) not cause excessive pressure; and

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d) not cause skin irritation under normal conditions of use.

4.1.5 Odour
The wig cap shall be free from objectionable odours.

4.1.6 Elastic Band
Where provided, the elastic band shall:

a) be securely attached;
b) retain elasticity after repeated stretching; and
c) not roll excessively during use.

4.1.7 Stitch types and the stitch density
If sewn, the various parts of the wig caps shall be sewn with appropriate stitch types and stitch density adapted to the fabric type, thickness and elasticity to ensure seam strength and durability.

4.2 Specific requirements

4.2.1 Fabric construction requirements
The construction requirements of wig cap or fabrics 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 wig cap or fabrics intended to be used their manufacture

S/NO	Characteristics		Requirements	Test methods
i.	Mass per unit area [a], g/m^2, min.		55	ISO 3801
ii.	Elastic recovery, %, min.		[c]u.o.	ISO 20932-1 and ISO 20932-3
iii.	Dimensional change after five washings, %, max.		± 20	ISO 6330 (4N washing program) and ISO 5077
iv.	Bursting strength [a], kPa, min.		170	ISO 13938-1
v.	Mesh breaking load [b], N	course direction	90	ISO 13934-2
		wale direction	40	

[a] Only applicable to closed-structure wig caps
[b] Only applicable to open-mesh wig caps
[c] Under observation (or may provide during public review)

4.2.2 Colour fastness requirements
The colour of the dyed wig cap or fabrics intended to be 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 wig cap or fabrics intended to be used in their manufacture.

S/NO	Colour fastness to:		Requirements	Test methods
i.	Washing, min.	Change in colour	4	ISO 105-C10
		Staining		
ii.	Perspiration Acid solution & Alkaline, min	Change in colour	3-4	ISO 105-E04
		Staining		

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4.2.3 pH requirement

When tested in accordance with ISO 3071, the pH of wig cap or fabrics intended to be used in their manufacture shall be 4.0 – 8.5.

4.2.4 Restricted chemical substances

The wig cap or fabrics intended to be used in their manufacture shall:

a) contain restricted aromatic amines of < 30 mg/kg when tested in accordance with ISO 14362-1 and ISO 14362-3;

b) be free from carcinogenic dyestuffs when tested in accordance with ISO 16373-2 and ISO 16373-3;

c) contain phthalates of < 0.1 %, when tested in accordance with ISO 14389; and

d) contain formaldehydes of < 75 mg/kg when tested in accordance with ISO 14184-1 and ISO 14184-2.

5 Packaging and labelling

5.1 Packaging

Wig cap or the fabric roll intended to be used in 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 wig cap or the fabric roll intended to be used in 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) size;
f) care instructions, using symbols or words; and
g) batch number, lot number or production date.

5.2.2 Bulk package

Bulk packages containing wig cap or fabric intended to be used in 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; and
f) net quantity

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

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