



DRAFT TANZANIA STANDARD

Textiles – Cotton dress fabric – Specification

Draft for Stakeholders' comments only

TANZANIA BUREAU OF STANDARDS

FOREWORD

This Draft Tanzania Standard is issued to help manufacturer's in manufacturing textiles materials of a defined quality. This Draft Tanzania Standard prescribes one variety of cotton dress material which may be bleached, dyed, printed, striped or checked according to demand. It is no way implied that other varieties are not to be manufactured.

In the preparation of this Draft Tanzania Standard assistance was derived from

IS 1095: 2002 – *Specification for handloom cotton dress material, bleached, dyed, printed, striped or checked*, published by the Indian Standards Institution.

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1. SCOPE

1.1 This Draft Tanzania Standard describes constructional details and other particulars of plain woven cotton dress fabric, bleached, dyed, printed, striped or checked, normally used for dresses.

1.2 This Draft Tanzania Standard does not specify the finishing treatment, the general appearance, lustre, feel and the degree of whiteness in the bleached cloth, nor does it specify the dyestuffs and/or combinations to obtain different shades in dyed, printed, striped or checked cloth.

2. NORMATIVE REFERENCES

The following referenced documents are indispensable for the application 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:

TZS 20: *Textiles – Woven fabrics – Determination of number of threads per centimeter*

TZS 21: *Textiles – Woven or knitted fabrics – Determination of mass per unit length and per unit area*

TZS 22: *Textiles – Woven fabrics – Determination of breaking load and Extension*

TZS 23: *Textiles – Test for colour fastness to light: Xenon arc*

TZS 26: *Textiles – Determination of conductivity, pH, water soluble matter, chloride and sulphate in aqueous extracts*

TZS 40: *Textiles – Tests for colour fastness to light: Daylight*

TZS 44: *Textiles – Woven or knitted fabrics – Determination of length and width*

TZS 137: *Textiles – Determination of dimensional changes of woven and knitted fabrics and garments: Machine method*

TZS 138: *Textiles – Test for colour fastness to rubbing*

TZS 139: *Textiles – Determination of linear density of yarn removed from fabric free from added matter*

TZS 167: *Textiles – Tests for colour fastness to washing: Test 3*

TZS 280: *Textiles – Tests for colour fastness – colour fastness to perspiration.*

3. TERMS AND DEFINITIONS

For the purpose of this Draft Tanzania Standard, the following terms and definitions shall apply:

3.1 Dressing materials

Materials applied to yarns during warp preparation such as size, stiffening or softening agents.

3.2 Filling materials

Non-substantive and generally insoluble materials such as China clay, gypsum, etc added to fabric together with starches or gums during finishing to add weight or to modify the appearance and handle of the fabrics.

4. MANUFACTURE

4.1 Yarn

Cotton yarn used in the manufacture of the cloth shall be of the good quality required to ensure that the cloth complies with the requirements of this Draft Tanzania Standard. It shall be satisfactory in evenness and reasonably free from neps and spinning defects.

4.2 Cloth

The cloth used for manufacture of dress fabric shall be woven in plain weave, sheared and singed

4.2.1 White finished dress fabric

The cloth shall be prepared as specified in 4.2. it shall be bleached to give a uniform degree of whiteness as agreed upon between the buyer and manufacturer.

4.2.1.1 The white dress fabric shall be free from dressing and filling materials and from substances liable to cause subsequent tendering.

4.2.1.2 The white dress fabric when visually examined shall be reasonably free from spinning, weaving and processing defects.

4.2.2 Dyed (including polychromic dyed) dress fabric.

The fabric shall be prepared as specified in 4.2. It shall be dyed to suitable colours and shades as agreed upon between the buyer and the manufacturer. The dyed cloth shall be free from dyeing defects as uneven subsequent tendering.

5. REQUIREMENTS

5.1 Construction

The cloth shall comply with the applicable requirements as given in Table 1.

5.2 Colour fastness and other requirements of the dyed, printed, striped or checked cloth shall be as given in Table 2

Table 1. Particular requirements of cotton dress fabric

S/N	Characteristics	Requirements	Method of test
1	Cover factor (K) Warp Weft	5.7 ± 0.2 5.1 ± 0.2	See note 1
2	Mass per unit area, g/m ² , min,	140	TZS 21
3	Breaking load, N, min, Warp way Weft way	550 350	TZS 22

NOTES:

1) $K = cn \sqrt{N_t}$

Where

K is the cover factor

C is the constant for tex = 0.04126

N is the number of threads per centimetre

N_t is the Tex number of a yarn

The cover factor is for the guidance of Manufacturers

- 2) Mass and breaking load specified, relate to the specific state of finish in which the dress fabric is delivered.

Table 2. **Other requirements of cotton dress fabric**

S/N	Characteristics		Requirements	Method of test
1	Colour fastness to	a) Washing Change in shade Staining of adjacent fabric	4 or better	TZS 167
		b) Rubbing Dry Wet	4 or better 3 or better	TZS 138
		c) Perspiration Change in shade Staining of adjacent fabric	4 or better 3 or better	TZS 280
		d) Light	4 or better	TZS 23 or TZS 40
2	pH value		6.0 – 8.5	TZS 26
3	Dimensions, cm Length Width		Shall be as agreed or specified in agreement between the buyer and manufacturer subject to tolerance of 2%	TZS 44
4	Dimensional changes Shrinkage or elongation, max, %		± 5	TZS 137

6. MARKING

The cloth shall be marked with the following information:

- type of material, namely 100% cotton,
- manufacturer's name or trade mark,
- dimension of the piece,
- production lot number and batch number.

7. PACKING

The cloth shall be packed in bales or cases in conformity with procedures agreed upon between the buyer and manufacturer.

8. SAMPLING

8.1 Lot

The quantity of the cloth of the same variety delivered to one buyer against one despatch note shall constitute a lot.

8.2 The conformity of a lot to the various requirements specified in the standard shall be determined on the basis of tests carried out on the samples selected from it.

8.3 Unless otherwise agreed, the number of pieces to be selected at random for inspection shall be in accordance with Table 3.

Table 3. Sampling procedures

S/N	Size	Sample size (No. of pieces to be selected)	Permissible number of non- conforming pieces	Sub-sample size (No of pieces to be selected)
1	Up to 100	10	0	5
2	101 to 300	15	1	6
3	301 to 500	25	1	7
4	501 to 800	35	2	8
5	801 to 1300	50	3	9
6	1301 to above	75	4	10