



DRAFT TANZANIA STANDARD

Textiles – Polyester Kitenge – Specifications

0 FOREWORD

This Draft Tanzania Standard has been developed to help manufacturers of Polyester Kitenge to come up with products of defined quality. This Draft Tanzania Standard has been prepared to bring its requirements in alignment with the current science, technology, practice, and expertise.

In the preparation for reviewing this Draft Tanzania Standard, reference was made to the following:

Local company specifications

TZS 164:2020 – Textiles – Cotton Kitenge - Specification

1. SCOPE

This Draft Tanzania Standard specifies requirements, sampling and test methods of Kitenge made from polyester yarns. This Draft Tanzania Standard does not specify the type of finish, general appearance, luster, and feels of cloth nor does it specify the color combinations in printed 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 the 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 27: Determination of dimensional change of woven fabrics-Cold water immersion

TZS 138: Textiles – Test for colour fastness to rubbing

TZS 24: Method for determination of colour fastness of textile materials to washing: Test 4: severe washing

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 kitenge (plural – vitenge)

plain-woven of light-weight polyester or cotton fabric printed with fast colours and the prints are generally completely visible on both sides. Polyester/Cotton Kitenge forms a continuous print lengthwise with small top and bottom edging border lines.

3.2 cover factor

number that indicates the extent to which the area of fabric is covered by one set of threads. For any woven fabric, there are two cover factors: a warp cover factor and a weft cover factor.

4. MANUFACTURE

4.1 Yarn

Polyester yarn used in the manufacture of cloth shall be of the quality 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 other spinning defects.

4.2 Cloth

The cloth used for the manufacture of Polyester Kitenge shall be;

- i) woven in plain weave, the selvages shall be firm and well woven.
- ii) sheared and singed
- iii) printed with suitable shades and colours or as agreed upon between the buyer and the manufacturer. The prints shall be visible on both sides of the Polyester Kitenge. They shall be free from printing defects such as the uneven spread of print paste, blur, and inclination.
- iv) free from dressing and filling materials and substances liable to cause subsequent tendering.
- v) free from spinning, weaving, and processing defects.

5. REQUIREMENTS

5.1 Construction

The Kitenge shall comply with the requirements of Table 1. The permissible tolerances for various requirements and the methods of the test have also been described in Table 1.

Table 1 – Performance requirements for Polyester Kitenge

Parameter	Requirements	Test method
Mass per unit area, g/m ² , <i>min.</i>	90	TZS 21: (see clause 2)
Breaking load, N, <i>min.</i>		
Warp way	400	TZS 22: (see clause 2)
Weft way	300	
pH value	6.0 to 8.5	TZS 26
Shrinkage or elongation, %, <i>max.</i>	± 3	TZS 27

5.2 Colour fastness

5.2.1 The colour of the printed cloth shall be fast to agencies by the requirements specified in Table 2 when tested.

5.2.2. Other requirements of Kitenge shall be as given in Table 3.

Table 2 — Colour fastness requirements

Fastness to:		Numerical rating	Test method
Light		4 or better	TZS 23 TZS 40
Washing		4 or better	TZS 24
Rubbing	Dry	4 or better	TZS 138
	Wet	3 or better	TZS 138
Perspiration		4 or better	TZS 280

Table 3 - Other requirements of Polyester Kitenge

Characteristic	Requirement	Test method
Length, cm, min.	180	TZS 44
Width, cm, min.	114	
Dye properties	Non-carcinogenic Non-allergic	TZS 2007-2

5.3 Sealed sample

To illustrate or specify the type of finish, general appearance, feel, etc., of cloth or to specify shades and colours, in Kitenge, a sample has been agreed upon and sealed, the supply shall conform with the sample in respect of finish, general appearance, shades, and colours, etc., as the case may be.

5.4 The custody of the sealed sample shall be a matter of prior agreement between the buyer and the manufacturer.

NOTE:

Length and width specified, relate to the specific state of finish in which the Kitenge is delivered in the laboratory for testing.

6. MARKING

6.1 The Kitenge shall be marked at selvages with the following:

- description of the material. i.e. 100% Polyester,
- manufacturer's name, address or reference (initials or trademark) and if required supplier's name or reference, and
- design number.

6.1.1 The Kitenge may also be marked with the tbs Standards Mark of Quality.

TDC2 (1311) DTZS

NOTE: Information regarding issuance of a license to use the tbs Standards Mark of Quality may be obtained from TBS offices.

7. PACKING

The cloth shall be packed in bales or cases in conformity with the procedure agreed upon between the buyer and the seller

8. SAMPLING

8.1 Lot

The quantity of Vitenge of the same quality delivered to one buyer against one dispatch note shall constitute a lot.

8.1.1 The conformity of the lot to the requirements of this Draft Tanzania Standard shall be determined based on tests carried out on the samples selected from the lot.

8.1.2 Unless otherwise agreed upon between the buyer and manufacturer, the number of pieces to be selected at random from a lot shall be in accordance with Table 4.

Table 4 – Sampling size and permissible number of non-conforming pieces

Number of pieces in the lot	Sample size (No. of pieces to be selected)	Permissible no. Non-conforming pieces	Sub-sample size (No. of pieces to be selected)
Up to 25	3	0	2
26 to 50	5	0	2
51 to 150	8	0	3
151 to 300	13	1	3
301 to 500	20	1	5
501 to 1000	32	2	5
1000 and above	50	3	8