**Men’s underwear Specification**

TECHNICAL COMMITTEE REPRESENTATION

The following organizations were represented on the Technical Committee:

Ciba-Geigy Company Ltd.

Deacons (K) Ltd.

Kenya Textile Mills Ltd.

Uzuri Stores

Office of the President — Supplies Branch

Ministry of Finance — Price Control Department

Spinners and Spinners Ltd.

Capital Knitwear Mills Ltd.

Ministry of Home Affairs — Kenya Prisons

Sunflag Knitwear Mills Ltd.

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Ministry of Transport and Communications — Materials Branch

Londra Ltd.

Ken-knit (K) Ltd.

Midco Textiles (E.A.) Ltd.

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Kenya Bureau of Standards — Secretariat

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In order to keep abreast of progress in industry, Kenya Standards shall be regularly reviewed. Suggestions for improvements to published standards, addressed to the Managing Director, Kenya Bureau of Standards, are welcome.

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**Men’s underwear Specification**

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Foreword

This Kenya Standard was prepared by the TC 70 Readymade garments Technical Committee under the guidance of the Standards Projects Committee, and it is in accordance with the procedures of the Kenya Bureau of Standards.

Kenya Bureau of Standards (KEBS) has established Technical Committees (TCs) mandated to develop Kenya Standards (KS). The Committees are composed of representatives from the public and private sector organizations in Kenya.

Kenya Standards are developed through Technical Committees that are representative of key stakeholders including government, academia, consumer groups, private sector and other interested parties. Draft Kenya Standards are circulated to stakeholders through the KEBS website and notifications to World Trade Organization (WTO). The comments received are discussed and incorporated before finalization of the standards, in accordance with the Procedures for Development of Kenya Standards.

Kenya Standards are subject to review, to keep pace with technological advances. Users of the Kenya Standards are therefore expected to ensure that they always have the latest versions of the standards they are implementing.

This second edition cancels and replaces the first edition (KS 495:1983), which has been technically revised.

During the preparation of this standard, reference was made to the following document (s):

IS 4046-1977: Specification for gent’s cotton knitted briefs.

**Men’s underwear Specification**

1. **Scope**

This Standard specifies the requirements and test methods for men’s underwear which include but not limited to, brief, boxer brief trunk and other types of underwear worn to cover the groin. This standard excludes vests and knitted T-shirts.

**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.

KS EAS 220, *Knitted polyester fabric — Specification*

KS EAS 222, *Knitted polyester-cellulosic blended fabric — Specification*

KS EAS 227, *Knitted cotton fabric — Specification*

KS ISO 1833-11, *Textiles — Quantitative chemical analysis — Part 11: Mixtures of certain cellulose fibres with certain other fibres (method using sulfuric acid)*

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

KS ISO 3758, *Textiles-care labelling code using symbols*

KS ISO 8559-1, *Size designation of clothes — Anthropometric definitions for body measurement*

KS ISO 8559-2, *Size designation of clothes — Primary and secondary dimension*

KS ISO 9073-15, *Textiles — Test methods for nonwovens — Part 15: Determination of air permeability*

KS 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*

1. **Terms and Definitions**

For the purpose of this standard, the definitions given below and the definitions given in KS 410, KS 415,KS 8559 part1 and 2 shall apply.

trunk –can be made of either woven or knitted fabric   [loose-fitting](https://www.collinsdictionary.com/dictionary/english/loose-fitting) or [tight](https://www.collinsdictionary.com/dictionary/english/tight), and slightly shorter than boxer briefs. See examples in Annex B.

boxer briefs, brief shorts, mostly loose-fitting or tight. See examples in Annex Bit usually sits at upper side of the thigh.

brief-underwear worn by men which covers the area between the waist and the groin. See examples in annex B

1. General requirements

4.1 Defects

The men’s underwear shall be free from any manufacturing defects, such as mends, ladders, dropped stitches, holes, cuts, missed stitches at the stitched portions and stains. All the accessories of the underwear shall be as durable as the briefs themselves

**4.2** Elastic Strap

4.2.1 In case of underwear with elastic straps, the elastic straps shall have minimum width of 20 mm at the waist.

4.2.2 The elastic strap shall be securely attached.

**4.3 Seams and Stitches**

**4.3.1** The seams shall be straight and continuous.

**4.3.2** All the raw edges shall be neatly finished and secured.

**5. SPECIFIC REQUIREMENTS**

**5.1 Fiber composition and proportion of fabric**

The **Fiber composition and proportion of underwear shall** be declared subject to maximum tolerance of ± 5% when tested in accordance with KS ISO 1833.

**5.2 Decomposable aromatic amine dyes**

The Decomposable aromatic amine dyes shall not be more than 20mg/kg when determined in accordance with KS ISO 14362-3

**5.3 The waist girth** of underwear shall be declared as illustrated in ISO 8559-2.

**5.4 Dimensions —** The dimensions of briefs have been provided in Annex A for guidance purposes only.

**5.5 Colorfastness requirements**

The underwear shall comply with the following colour fastness requirements as specified in Table 1

**Table 1 — Colour fastness requirements**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl No** | **Agency** | | | **Rating, min.** | **Test Method** |
| 3 | Colorfastness Perspiration | Acid | Colour Change | 4 | KS ISO 105 E04 |
| Staining |
| Alkali | Colour change |
| Staining |
| 4 | Colorfastness to Washing | Colour change | | 4 | KS ISO 105 C10 |
| Staining | | 4 |
|  | Colorfastness to light |  | | 5 | KS ISO 105 B02  KS ISO 105 B01 |

**6.0 PACKING**

The underwear shall be packed in a suitable package to protect them from dust, dirt and water.

**7.0 MARKING**

Individual package

Each underwear shall have a label with the following information clearly and indelibly marked:

1. Manufacturer’s name
2. Fibre composition and proportion
3. Size designation
4. Country of manufacture
5. Care instructions as given in accordance with KS ISO 3758

**Annex A**

**(Informative)**

TABLE 1. DIMENSIONS OF GENTS’UNDER WEAR BRIEFS

|  |  |
| --- | --- |
| WIDTH ACROSS WAIST  (*See* Note 2)  (cm) | WIDTH ACROSS SEAT  (HIP)  (cm) |
| 26  28  30  32  35  38  41  44  47 | 35.0  37.5  40.0  42.5  45.0  47.5  50.0  52.5  55.0 |
| ± 2.0 | ± 1.5 |

**Annex B(Informative)**

The following are examples of gent’s briefs found in the market

# A pair of orange underwear Description automatically generatedA pair of orange boxer shorts Description automatically generated