EDICT OF GOVERNMENT

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EAST AFRICAN STANDARD

Cotton bedsheets — Specification

EAST AFRICAN COMMUNITY

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Foreword

Development of the East African Standards has been necessitated by the need for harmonizing requirements governing quality of products and services in East Africa. It is envisaged that through harmonized standardization, trade barriers which are encountered when goods and services are exchanged within the Community will be removed.

In order to achieve this objective, the Partner States in the Community through their National Bureaux of Standards, have established an East African Standards Committee.

The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the private sectors and consumer organizations. Draft East African Standards are circulated to stakeholders through the National Standards Bodies in the Partner States. The comments received are discussed and incorporated before finalization of standards, in accordance with the procedures of the Community.

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

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Introduction

100 per cent cotton fabrics are widely used for making bedsheets. To perform to the satisfaction of users, the fabrics and the bedsheets made therefrom must meet the minimum requirements expected for this purpose. This East African Standard specifies these minimum requirements.

In the preparation of this standard, reference made to:

BS 5815-1:1989, Specification for sheeting, sheets and pillowslips

Acknowledge is made for the assistance received from the this source
Cotton bedsheets — Specification

1 Scope
This East African Standard specifies the requirements for bedsheets made from 100 % cotton fabrics.

2 Normative references
The titles of the East African Standards referred to in this standard are listed below.

ISO 13934-1, Textiles — Tensile properties of fabrics — Part 1: Determination of maximum force and elongation at maximum force using the strip method

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

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

ISO 3758, Textiles — Care labelling code using symbols

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

EAS 227, Knitted cotton fabric — Specification

EAS 236, Method for determination of colour fastness of textile materials to drycleaning

EAS 237, Method for determination of colour fastness of textile materials to washing

EAS 255, Method for quantitative chemical analysis of binary fibre mixtures

EAS 238, Method for determination of colour fastness of textile materials to perspiration

EAS 257, Methods for estimation of moisture, total size or finish, ash, fatty matter and determination of water soluble matter in textiles

EAS 256, Method for determination of scouring loss in grey and finished cotton textile materials

EAS 239, Method for determination of colour fastness of textile materials to rubbing

EAS 241, Method for determination of colour fastness of textile materials to artificial light (Xenon arc)

EAS 261, Method for determination for pH value of aqueous extracts of textile materials

EAS 250, Specification for sewing threads — Part 1: Cotton threads

EAS 247, Method for determination of colour fastness of textile materials to peroxide washing (sodium perborate)


EAS 258, Methods for determination of dimensions of woven fabrics

3 Application
This East African Standard applies to finished bedsheets made from:
EAS 228:2001

a) Bleached fabrics
b) Printed fabrics
c) Dyed fabrics
d) Dyed and printed fabrics

4 Requirements

4.1 Fabric

4.1.1 Fabric fibre composition

The fabric shall be 100 per cent cotton and shall comply with the requirements of EAS 227. This shall be determined in accordance with EAS 255.

4.1.2 Properties

The fabric properties shall be as specified in Table 1.

4.1.3 Selvedges

The fabric selvedges when visually examined shall be straight and firm.

4.1.4 Fabric Grade

The fabric used for the manufacture of bedsheets shall be of grade not lower than B in accordance with EAS 253-1.

4.1.5 Colourfastness

The colourfastness of the coloured fabrics shall be as specified in Table 2.

Table 1 — Fabric properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Requirement</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mass per unit area, g/m², min.</td>
<td>150</td>
<td>ISO 3801</td>
</tr>
<tr>
<td>Breaking force, N, min.:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warpway</td>
<td>490</td>
<td>ISO 13934</td>
</tr>
<tr>
<td>Weftway</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>Dimensional changes after washing, per cent.</td>
<td>±4</td>
<td>EAS 237</td>
</tr>
<tr>
<td>Length</td>
<td>±4</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filling, per cent, max.</td>
<td>2</td>
<td>EAS 257</td>
</tr>
<tr>
<td>pH</td>
<td>7±1</td>
<td>EAS 261</td>
</tr>
<tr>
<td>Scouring loss (only for bedsheets finished as bleached white), per cent, max.</td>
<td>5</td>
<td>EAS 256</td>
</tr>
<tr>
<td>Pilling resistance, minimum</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Table 2 — Colourfastness requirements

<table>
<thead>
<tr>
<th>Agency</th>
<th>Numerical rating, min.</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Colour change</td>
<td>Staining</td>
</tr>
<tr>
<td>Light</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Washing — ordinary (scrubbing) bleaching</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Washing — peroxide bleaching</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Washing — chlorine bleaching</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Perspiration, acid and alkali</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Drycleaning</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Rubbing: Dry</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Wet</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

4.2 Make-up

4.2.1 Finished dimensions (Sizes)

The minimum dimensions (sizes) of the finished bedsheet shall be as specified in Table 3. The dimensions shall be determined in accordance with EAS 258.

Table 3 — Dimensions of finished bedsheets

<table>
<thead>
<tr>
<th>Width, cm</th>
<th>Length, cm</th>
<th>Width, cm</th>
<th>Length, cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>235</td>
<td>285</td>
<td>140</td>
<td>240</td>
</tr>
<tr>
<td>235</td>
<td>265</td>
<td>140</td>
<td>215</td>
</tr>
<tr>
<td>190</td>
<td>240</td>
<td>130</td>
<td>195</td>
</tr>
<tr>
<td>160</td>
<td>240</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4.2.2 Sewing thread

The sewing thread shall be 100 per cent cotton of ticket number 50 complying with EAS 250-1. The thread shall be of the same colour as the bedsheet and in the case of coloured bedsheet, of the same colourfastness — see Table 2.

4.2.3 End hems

A bedsheet shall have a minimum of 2 cm end-hems. A minimum of 0.5 cm of the raw edges shall be turned in.

4.2.4 Joined bedsheets

A bedsheet of width more than 155 cm may be joined on one side or both sides. No bedsheet shall have more than two seams within the body. The seams shall be neatly turned in so that no raw edges are exposed and stitched with a stay seam. The ends of all stitching threads shall be trimmed and loose ends removed.

4.2.5 Sewing

The sewing shall be of even tension throughout and the ends shall be finished securely and neatly. The number of stitches per cm shall not be less than 4.5.

5 Packing

5.1 Pieces

Each piece or pair of bedsheet(s) shall be neatly and securely wrapped in polythene wrappers to prevent contamination or damage.
5.2 Bulk

The neatly and securely wrapped pieces shall be packed in cartons or boxes. A bulk container shall consist of only same type, dimensions and style of bed sheets.

6 Marking

6.1 Pieces

Each piece or pair of bedsheet(s) shall have a label securely attached bearing the following information:

(i) manufacturer's name or registered trade mark;
(ii) 100 per cent cotton bedsheet(s);
(iii) Size of the bedsheet(s) in cm;
(iv) Care instructions in accordance with ISO 3758; and
(v) Country of origin.

6.2 Bulk containers

Each bulk container shall have a label securely attached, bearing the following information:

(a) Manufacturer's name or registered trade mark.
(b) 100 per cent cotton bedsheets.
(c) Size of the bedsheets in cm.
(d) Quantity of pieces.
(e) Country of origin.
(f) Jointed bedsheets, if joined (see Clause 4.2.4).