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ICS 61.040

## **DRAFT EAST AFRICAN STANDARD**

**Leather — Leather for upholstery — Specification**

PUBLIC REVIEW

**EAST AFRICAN COMMUNITY**

PUBLIC REVIEW

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Contents		Page
Foreword .....		iv
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Requirements.....	2
4.1	General requirements .....	2
4.2	Specific requirements .....	2
4.3	Type, design and size of upholstery leather.....	Error! Bookmark not defined.
4.3.1	Type and design .....	Error! Bookmark not defined.
4.3.2	Size.....	Error! Bookmark not defined.
4.4	Construction of lining and interlining material .....	4
5	Packaging.....	4
6	Marking and labelling.....	4
6.1	Upholstery leather .....	4
6.2	Bulk Package .....	5
Annex A (normative) Annex title .....		Error! Bookmark not defined.
A.1	Scale of sampling .....	Error! Bookmark not defined.
A.2	Method of selection .....	Error! Bookmark not defined.
A.3	Defects.....	Error! Bookmark not defined.
A.4 Acceptance criteria.....		Error! Bookmark not defined.
Bibliography.....		6

## Foreword

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

The Community has established an East African Standards Committee (EASC) mandated to develop and issue East African Standards (EAS). The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the public and private sector organizations in the community.

East African Standards are developed through Technical Committees that are representative of key stakeholders including government, academia, consumer groups, private sector and other interested parties. 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 Principles and procedures for development of East African Standards.

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.

The committee responsible for this document is Technical Committee EASC/TC 063, *Leather and leather products*.

Attention is drawn to the possibility that some of the elements of this document may be subject of patent rights. EAC shall not be held responsible for identifying any or all such patent rights.

## Leather — Leather for upholstery — Specification

### 1 Scope

This Draft East African Standard specifies requirements, sampling and test methods for leather intended for upholstery use.

### 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.

ISO 3376, *Leather — Physical and mechanical tests — Determination of tensile strength and percentage elongation*

ISO 3380, *Leather — Physical and mechanical tests — Determination of shrinkage temperature up to 100 °C*

ISO 4045, *Leather — Chemical tests — Determination of pH and difference figure*

ISO 4048, *Leather — Chemical tests — Determination of matter soluble in dichloromethane and free fatty acid content*

ISO 11640, *Leather — Tests for colour fastness — Colour fastness to cycles of to-and-fro rubbing*

ISO 11644, *Leather — Test for adhesion of finish*

ISO 17076, *Leather — Determination of abrasion resistance*

ISO 17130, *Leather — Physical and mechanical tests — Determination of dimensional change*

ISO 105-B02, *Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test*

ISO 3377, *Leather — Physical and mechanical tests — Determination of tear load*

ISO 15700, *Leather — Tests for colour fastness — Colour fastness to water spotting*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <http://www.iso.org/obp>

### **3.1**

upholstery leather

leather made from a whole hide and used specifically for upholstering.

## **4 Requirements**

### **4.1 General requirements**

**4.1.1** leather for upholstery shall be clean, well made and be free from defects that affect their appearance or that may affect their performance (or both) .

**4.1.2** The grain side of the leather for making up upholstery shall be free from flays and grain defects that affect its appearance.

**4.1.3** The flesh side of the leather shall have been shaved and be free from any cuts and loose flesh.

**4.1.4** The leather shall be soft, flexible, and not be pippy.

### **4.2 Specific requirements**

Leather for upholstery shall comply with the specific requirements given in Table 1 when tested in accordance with the test methods specified therein.

**Table 1 — Specific requirements for leather for upholstery use.**

S/N	Characteristic		Requirements	Test method
i.	Tensile strength (MPa), min.		15	ISO 3376
ii.	Elongation at break, (%)		10 – 80	ISO 3376
iii.	Rub fastness (Grey scale), dry /wet, Min	50 cycles (dry)	3	ISO 11640
		20 cycles (wet)	3	
		500 cycles (dry)	4	
		80 cycles (wet)	3 – 4	
		250 cycles (wet)	3 – 4	
iv.	abrasion (revolution s) min.	Dry	25600	ISO 17076
		Wet	6400	
v.	pH value		4.5 – 5.5	ISO 4045
vi.	Thickness,mm		0.8 –2.0	ISO 2589
vii.	Chromic oxide content, calculated on a moisture-free basis, %, min.		3.5	ISO 5398
viii.	Chromium (vi), mg/kg, max.		3.0	ISO 17075-1
ix.	Shrinkage, (%), max.		5	ISO 17130
x.	Extension set, %, max.		10	ISO 17236
xi.	Light fastness, (blue wool standards), min.		4	ISO 105-B02



xii.	Colour fastness to perspiration,min	3	ISO 11641	
xiii.	<i>Tear strength, N, min</i>	20	ISO 3377	
xiv.	<i>Colour fastness to water spotting, min</i>	4 (No permanent swelling)	ISO 15700	
xv.	<i>Burning behaviour</i>	<i>Pass</i> <i>(No soaking)</i>	<i>ISO 8191</i>	
xvi.	<i>Cold crack resistance of finish, –15 °C</i>	<i>No finish cracks</i>	<i>ISO 17233</i>	
xvii.	Adhesion of finish, N/10mm, min.	Dry	2.0	ISO 11644
		Wet	1.5	

#### 4.4 Construction of lining and interlining material

4.4.1 leather for upholstery shall be lined with leather or be interlined with fabric or other acceptable interlining material.

### 5 Packaging

Upholstery leather shall be packaged in suitable material so as to protect them from damage during transportation, storage and handling.

### 6 Marking and labelling

#### 6.1 Upholstery leather

The following information shall be legibly and indelibly marked/labelled on each upholstery leather:

- manufacture's name and/or trademark;
- colour;
- country of origin;
- material i.e. Aniline, suede, nubuck, Semi-aniline or Pigmented leather ; and
- batch number.

## **6.2 Bulk package**

Each bulk package shall be legibly and indelibly labelled with the following information:

- a) manufacturer's name and/or trade mark;
- b) number of upholstery leather; and
- c) country of origin.

## **7 Sampling**

**7.1** When possible, the location and identification of laboratory samples shall be in accordance with ISO 2418.

**7.2** The number of samples shall be by agreement between the interested parties except in cases of dispute when the number of samples shall be in accordance with ISO 2588. If the lot size of the leathers is high, the maximum number of samples shall be five.

**7.3** Leather samples shall be conditioned and prepared for physical, mechanical and fastness tests in accordance with ISO 2419.

**7.4** Leather samples for chemical tests shall be conditioned and prepared in accordance with ISO 4044.

## Bibliography

- [1] FTZS 3569: 2022, *Textiles — Car Seat Covers — Specification*

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