

# DRAFT UGANDA STANDARD

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## Vegetable-tanned bend outer sole leather — Specification

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## Foreword

Uganda National Bureau of Standards (UNBS) is a parastatal under the Ministry of Trade, Industry and Cooperatives established under Cap 327, of the Laws of Uganda, as amended. UNBS is mandated to co-ordinate the elaboration of standards and is

- (a) a member of International Organisation for Standardisation (ISO) and
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- (c) the National Enquiry Point on TBT Agreement of the World Trade Organisation (WTO).

The work of preparing Uganda Standards is carried out through Technical Committees. A Technical Committee is established to deliberate on standards in a given field or area and consists of key stakeholders including government, academia, consumer groups, private sector and other interested parties.

Draft Uganda Standards adopted by the Technical Committee are widely circulated to stakeholders and the general public for comments. The committee reviews the comments before recommending the draft standards for approval and declaration as Uganda Standards by the National Standards Council.

The committee responsible for this document is Technical Committee UNBS/TC 7, *Textiles, leather, paper and related products*, Subcommittee SC 2, *Leather and related products*.

This second edition cancels and replaces the first edition (US 630:2006), which has been technically revised.



# Vegetable-tanned bend outer sole leather — Specification

## 1 Scope

This draft Uganda standard specifies requirements, sampling and methods of test for vegetable-tanned bend outer sole leather.

## 2 Normative references

The following referenced documents 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.

DUS 2250, *Standard Test Method for Compressibility of Leather*

ISO 2588, *Leather — Sampling — Number of items for a gross sample*

ISO 5404, *Leather — Physical test methods — Determination of water resistance of heavy leathers*

US ISO 2419, *Leather — Physical and mechanical tests — Sample preparation and conditioning*

US ISO 2589, *Leather — Physical and mechanical tests — Determination of thickness*

US ISO 3378, *Leather — Physical and mechanical tests — Determination of resistance to grain cracking and grain crack index*

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

US ISO 4047, *Leather — Determination of sulphated total ash and sulphated water-insoluble ash*

US ISO 4098, *Leather — Chemical tests — Determination of water-soluble matter, water-soluble inorganic matter and water-soluble organic matter*

US ISO 4684, *Leather — Chemical tests — Determination of volatile matter*

## 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

#### **bend**

half a bovine hide, produced by cutting along the backbone line with the belly and shoulder parts removed

## **4 Requirements**

### **4.1 General requirements**

#### **4.1.1 Tannage**

The leather shall be tanned with vegetable tanning materials only and shall show no signs of raw streaks or patches.

#### **4.1.2 Form**

The leather shall be supplied in the form of well-trimmed bends

#### **4.1.3 Physical appearance**

The leather shall be full grain or may be slightly snuffed, provided that such snuffing shall have removed the top portions only of the hair follicles. The flesh side shall be free from adhering flesh and shall be smooth. The leather shall be free from imperfections and blemishes that affect its appearance or that may affect its serviceability (or both). Any defects present shall be such that the cutting area of the bend is not reduced by more than 6.5 dm<sup>2</sup>.

#### **4.1.4 Thickness**

The nominal thickness of the leather shall be within one of the following ranges, as specified by the purchaser

- a) 3.5 mm – 4.9 mm;
- b) 5.0 mm – 5.9 mm; or
- c) 6.0 mm – 7.0 mm.

The actual thickness at any point on a bend shall not fall outside the appropriate range by more than 0.5 mm.

### **4.2 Chemical requirements**

When the leather is tested:

- a) the pH value shall be between 3.3 and 3.5 in accordance with clause 5.4
- b) the water-soluble matter content, calculated on a moisture-free basis, shall not exceed a mass fraction of 21 % in accordance with clause 5.5
- c) the volatile matter content as received (that is, without prior conditioning) shall not exceed a mass fraction of 17 %; in accordance with clause 5.6 and
- d) the sulphated ash content of the water-soluble matter, calculated on a moisture-free basis, shall not exceed a mass fraction of 4.2 % in accordance with clause 5.7

### **4.3 Physical requirements**

When the leather is tested in accordance with

- a) 5.8, the grain extension shall be at least 15 %;
- b) 5.9, the compressibility shall not exceed 10 %; and

- c) 5.11, the water penetration rate shall be such that the amount of water that passes through the test sample in the first 10 min after penetration has occurred shall not exceed 0.25 g/dm<sup>2</sup>.

## **5 Methods of test**

### **5.1 Test specimens**

Take the test specimens for both the chemical and the physical tests from the physical test position specified in Clause 2 of US 655.

### **5.2 Preparation and conditioning of test specimens**

Prepare and condition the test specimens in accordance with US ISO 2419

NOTE The physical tests should be conducted without removing the test specimens from the conditioned atmosphere.

### **5.3 Thickness**

Use US ISO 2589

### **5.4 pH value**

Use US ISO 4045

### **5.5 Water-soluble matter content**

Use US ISO 4098

### **5.6 Volatile matter content**

Use US ISO 4684

### **5.7 Sulphated ash content of water-soluble matter**

Use US ISO 4047

### **5.8 Grain extension**

Use US ISO 3378

### **5.9 Compressibility**

Use DUS 2250

### **5.10 Water penetration rate**

Use ISO 5404

## **6 Packaging**

The sole leather shall be wrapped in a suitable material that will protect them from damage during normal transportation and storage.

## **7    Labelling**

The following shall be legibly and indelibly labelled on the package

- a) manufacturer's name, address and/or trade mark
- b) country of origin
- c) thickness
- d) weight
- e) dimensions
- f) description of the product e.g vegetable tanned bend outer sole leather

## **8    Sampling**

Sampling shall be done in accordance with ISO 2588



## Bibliography

- [1] US 630:2006, Vegetable-tanned bend outer sole leather — Specification

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