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CHROME TANNED BEND OUTER SOLE LEATHER - SPECIFICATION

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Leather — Chrome tanned bend outer sole — Specification



Table of contents

1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Requirements	2
4.1	Physical requirements	2
4.2	Chemical requirements	2
5	Sampling, inspection and methods of test	2
5.1	Conditioning of test samples	3
5.2	Shrinkage temperature	3
5.3	Resistance to grain cracking	3
5.4	pH value	3
5.5	Total ash content	3
5.5	Water soluble matter	3
5.6	Chromic oxide content	3

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This African Standard was prepared by the ARSO Technical Harmonization Committee Number 7 on Leather and Textile Products (ARSO/THC 07).

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Leather — Chrome tanned bend outer sole — Specification

1 Scope

This African Standard specifies requirements for chrome-tanned, wax impregnated, bend outer sole leather.

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.

ISO 2418, *Leather — Chemical, physical and mechanical and fastness tests — Sampling location*

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

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

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

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

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

ISO 4044, *Leather — Chemical tests — Preparation of chemical test samples*

ISO 4045, *Leather — Chemical tests — Determination of pH*

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

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

ISO 5398-1, *Leather — Chemical determination of chromic oxide content — Part 1: Quantification by titration*

ISO 5398-2, *Leather — Chemical determination of chromic oxide content — Part 2: Quantification by colorimetric determination*

ISO 5398-3, *Leather — Chemical determination of chromic oxide content — Part 3: Quantification by atomic absorption spectrometry*

ISO 5398-4, *Leather — Chemical determination of chromic oxide content — Part 4: Quantification by inductively coupled plasma - optical emission spectrometer (ICP-OES)*

3 Terms and definitions

For the purpose of this standard the following definitions apply.

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 Physical requirements

4.1.1 General

The leather shall be chrome-tanned bends of acceptable quality, shall not be fleshy, and shall be free from excessive grain damage and from widespread flay cuts. Any defects present shall be such that the cutting area of a bend is not reduced by more than 6.5 dm². The leather shall be wax impregnated. Surplus wax shall be removed.

4.1.2 Thickness

The nominal thickness (substance) of the leather shall be in one of the following ranges, as specified by the purchaser:

- a) 3.7 mm – 4.8 mm;
- b) 4.8 mm – 5.8 mm; or
- c) 5.8 mm – 7.4 mm.

The actual thickness at any point on a bend shall not fall outside the appropriate range by more than 0.5 mm as measured with the procedure in ISO 2589.

4.1.3 Shrinkage temperature

The shrinkage temperature when determined in accordance with 5.2, shall be not lower than 100 °C.

4.1.4 Resistance to grain cracking

When tested in accordance with 5.3, the leather shall not crack when bent, grain side out, through 180 °C over a mandrel of diameter 61.67 mm.

4.2 Chemical requirements

4.2.1 pH value

The pH value of leather when determined in accordance with 5.4, shall be at least 3.3.

4.2.2 Total ash content

The total ash content of the leather when determined in accordance with 5.5, shall not exceed a mass fraction of 7 % on a 14 % moisture basis.

4.2.3 Water soluble matter

The water soluble matter content of the leather when determined in accordance with 5.6, shall not exceed a mass fraction of 8 % on a 14 % moisture basis.

4.2.4 Chromic oxide content

The chromic oxide content of the leather when determined in accordance with 5.7, and calculated on a moisture-free and grease-free basis, shall be at a mass fraction of 3.5 %.

5 Sampling, inspection and methods of test

Sampling shall be done in accordance with ISO 2588.

5.1 Conditioning of test samples

Use the procedure given in ISO 2419 and ISO 4044 as appropriate.

5.2 Shrinkage temperature

Shrinkage temperature shall be determined by using ISO 3380.

5.3 Resistance to grain cracking

Resistance to grain cracking shall be determined by using ISO 3378.

5.4 pH value

pH value shall be determined by using ISO 4045.

5.5 Total ash content

Total ash content shall be determined by using ISO 4047.

5.5 Water soluble matter

Water soluble matter shall be determined by using ISO 4098.

5.6 Chromic oxide content

Chromic oxide content shall be determined by using the relevant part of ISO 5398.

ENQUÊTE PUBLIQUE N° 19

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