
**Leather — Full chrome upper
leather — Specification and
test methods**

(Identical with ISO 11410:2021)

ICS: 59.140.30

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Foreword

This Ethiopian Standard has been prepared under the direction of Technical Committee for Leather and Leather Products (TC 74) and published by the Ethiopian Standards Agency (ESA).

The standard is identical with ISO 20942:2019 *Leather – Full chrome upper leather – Specification and test methods*, published by the International Organization for Standardization (ISO).

For the purpose of this Ethiopian Standard, the adopted ISO text shall be modified as follows:

- The phrase “International Standard” shall be read as “Ethiopian Standard” and
- A full stop (.) shall substitute comma (,) as decimal maker.

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Leather — Full chrome upper leather — Specification and test methods

1 Scope

This document specifies requirements, methods of test and methods of sampling for full chrome upper leather. This document is applicable to upper leather which is used in general purpose sports footwear, school footwear, casual footwear, men's town footwear, women's town footwear, cold weather footwear, fashion footwear, infants' footwear and indoor footwear.

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

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

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

ISO 3377-2, *Leather — Physical and mechanical tests — Determination of tear load — Part 2: Double edge tear*

ISO 3379, *Leather — Determination of distension and strength of surface (Ball burst method)*

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

ISO 5402-1, *Leather — Determination of flex resistance — Part 1: Flexometer method*

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

ISO 11642, *Leather — Tests for colour fastness — Colour fastness to water*

ISO 14268, *Leather — Physical and mechanical tests — Determination of water vapour permeability*

ISO 17070, *Leather — Chemical tests — Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content*

ISO 17075-1, *Leather — Chemical determination of chromium(VI) content in leather — Part 1: Colorimetric method*

ISO 17075-2, *Leather — Chemical determination of chromium(VI) content in leather — Part 2: Chromatographic method*

ISO 17226-1, *Leather — Chemical determination of formaldehyde content — Part 1: Method using high performance liquid chromatography*

ISO 17229, *Leather — Physical and mechanical tests — Determination of water vapour absorption*

Bibliography

- [1] ISO 19952:2005, *Footwear — Vocabulary*

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Organization and Objectives

The Ethiopian Standards Agency (ESA) is the national standards body of Ethiopia established in 2010 based on regulation No. 193/2010. ESA is established due to the restructuring of Quality and Standards Authority of Ethiopia (QSAE) which was established in 1998.

ESA's objectives are:-

- ❖ Develop Ethiopian standards and establish a system that enable to check whether goods and services are in compliance with the required standards,
- ❖ Facilitate the country's technology transfer through the use of standards,
- ❖ Develop national standards for local products and services so as to make them competitive in the international market.

Ethiopian Standards

The Ethiopian Standards are developed by national technical committees which are composed of different stakeholders consisting of educational institutions, research institutes, government organizations, certification, inspection, and testing organizations, regulatory bodies, consumer association etc. The requirements and/or recommendations contained in Ethiopian Standards are consensus based that reflects the interest of the TC representatives and also of comments received from the public and other sources. Ethiopian Standards are approved by the National Standardization Council and are kept under continuous review after publication and updated regularly to take account of latest scientific and technological changes. Orders for all Ethiopian Standards, International Standard and ASTM standards, including electronic versions, should be addressed to the Documentation and Publication Team at the Head office and Branch (Liaisons) offices. A catalogue of Ethiopian Standards is also available freely and can be accessed in from our website.

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