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Leather — Full chrome upper leather — Specification and test methods

Cuir — Cuir à dessus entièrement chromé — Spécifications et méthodes d'essai

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html. (standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 120, *Leather*, Subcommittee SC 2, *Tanned leather*.

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Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Leather is widely used in the footwear industry. Although different tanning agents can be used to produce leather, chromium III is still the most important agent in the tanning of leather for footwear. This document specifies requirements for various types of full chrome upper leather which are used in the footwear industry.

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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 (standards.iteh.ai)

ISO 3377-2, Leather — Physical and mechanical tests — Determination of tear load — Part 2: Double edge tear ISO 20942:2019

https://standards.iteh.ai/catalog/standards/sist/81548e13-4d35-4310-9af3-ISO 3379, Leather — Determination of distension and strength of surface (Ball burst method)

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

 ${\it ISO~4048, Leather-Chemical~tests-Determination~of~matter~soluble~in~dichloromethane~and~free~fatty~acid~content}$

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

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ISO 17234-1, Leather — Chemical tests for the determination of certain azo colorants in dyed leathers — Part 1: Determination of certain aromatic amines derived from azo colorants

ISO 17234-2, Leather — Chemical tests for the determination of certain azo colorants in dyed leathers — Part 2: Determination of 4-aminoazobenzene

ISO 23910, Leather — Physical and mechanical tests — Measurement of stitch tear resistance¹⁾

Terms and definitions 3

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 https://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

3.1

casual footwear

footwear designed and manufactured as suitable for out-of-work leisure and spare time activities

[SOURCE: ISO 19952: 2005, 28]

3.2

cold weather footwear

footwear designed and manufactured to give specific protection to the wearer during use in sub-zero temperatures and in ice or snow or on frozen underfoot surfaces

Note 1 to entry: Also suitable for specific cold environments.

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[SOURCE: ISO 19952: 2005h38]/standards.iteh.ai/catalog/standards/sist/81548e13-4d35-4310-9af3-

58bce7910a61/iso-20942-2019

3.3

fashion footwear

footwear designed and manufactured for light wear in which style is prevalent

[SOURCE: ISO 19952: 2005, 59]

3.4

general purpose sports footwear

footwear designed and manufactured as suitable for wear during a variety of non-specialist sporting activities, e.g. jogging, occasional racket sports or court games such as netball and light general training

[SOURCE: ISO 19952: 2005, 74]

3.5

indoor footwear

footwear designed and manufactured as having adequate durability and comfort for wear indoors, around the house, unsuitable for use as a town shoe and unlikely to offer protection from inclement weather or harsh wear environments

[SOURCE: ISO 19952:2005, 88]

3.6

infants' footwear

footwear designed and manufactured as suitable for everyday wear by children from size 16 to 22

Note 1 to entry: See ISO 19952: 2005, 116, "Paris point".

¹⁾ Under preparation. Stage at the time of publication: ISO/FDIS 23910:2019.

[SOURCE: ISO 19952: 2005, 89]

3.7

school footwear

footwear designed and manufactured for everyday wear at school for children and teenagers from size 23 to 38

Note 1 to entry: See ISO 19952: 2005, 116, "Paris point".

[SOURCE: ISO 19952: 2005, 129]

3.8

town footwear

footwear designed and manufactured as suitable for everyday wear at the office, for shopping or similar wear environments

Note 1 to entry: Normally durability and comfort are more important than design or fashion content with this type of footwear.

[SOURCE: ISO 19952: 2005, 161]

3.9

upper leather

leather for making the upper part of footwear

4 Characteristics Teh STANDARD PREVIEW

4.1 Physical characteristics standards.iteh.ai)

The full chrome upper leather shall meet the physical characteristics given in Table 1.

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