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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 47793-2026

**Leather - Physical and mechanical tests - Determination of
water absorption: capillary action**

皮革 物理和机械试验 吸水性的测定：毛细作用法

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is modified to adopt ISO 19074:2015 "Leather - Physical and mechanical tests - Capillary method for determination of water absorption (capillary action)".

Compared with ISO 19074:2015, this document has undergone many structural adjustments. A comparison table of the structural numbering changes between the two documents is provided.

See Appendix A.

The technical differences between this document and ISO 19074:2015, and the reasons therefor, are as follows.

---Added "Terms and Definitions" and normative references to QB/T 2262 (see Chapter 3) to facilitate the understanding and use of the standard;

---The wording of "principle" has been revised (see Chapter 4) to conform to the regulations for drafting Chinese standards;

---Added requirements for die-cutting to conform to the standard (see 5.6 and 5.7) to standardize the operation of various mechanisms;

Technical conditions, easy to use;

---Regarding the provisions on thickness gauges and thickness measurement, the normatively referenced GB/T 45705 replaces ISO 2589 (see 5.9 and).

6.4) to conform to my country's technical conditions and facilitate use;

---Regarding the sampling of standard locations, the normative reference GB/T 39364 has

replaced ISO 2418 (see 6.1) to suit our needs.

The country's technical conditions facilitate its use;

---Provisions for sampling from non-standard areas have been added (see 6.1) to meet routine testing needs;

---A new sample cutting method has been added (see 6.2) to standardize the operation of various mechanisms;

---Added a sampling method for situations where the spine line cannot be identified (see 6.2) to meet daily testing needs;

---Change the note on sample preparation to the main text (see 6.2) to conform to the drafting rules of Chinese standards;

---Regarding sample conditioning, ISO 2419 (see 6.3) has been replaced with the normatively referenced QB/T 2707 to conform to my country's technical standards.

Technical conditions, easy to use;

---The requirement has been added that "if a fluorescent dye solution is used for testing, this should be noted in the test report" (see 8.3), to avoid discrepancies due to measurement methods.

The difference in results caused by the formula;

---The content of the test report has been revised (see Chapter 9) to align with relevant industry standards.

The following editorial changes have been made to this document.

---To harmonize with existing standards, the standard name has been changed to "Physical and Mechanical Tests of Leather. Determination of Water Absorption. Capillary Action Method";

---A new heading has been added to Chapter 6, "Sampling and Sample Preparation";

---Added explanations for letter symbols in the formulas.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document is under the jurisdiction of the National Technical Committee on Standardization of Leather Industry (SAC/TC252).

1 Scope

This document describes a test method for determining the water absorption of leather using the capillary action method.

This document is applicable to the determination of water absorption of various types of leather.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 6682 Specifications and test methods for water used in analytical laboratories (GB/T 6682-2008, ISO 3696:1987, MOD) GB/T 39364 Sampling sites for testing the chemical, physical, mechanical and color fastness of leather (GB/T 39364-2020, ISO 2418.

2017, MOD)

GB/T 45705 Physical and mechanical tests of leather - Determination of thickness (GB/T 45705-2025, ISO 2589:2016, MOD) QB/T 2707 Preparation and conditioning of test specimens for physical and mechanical testing of leather

3 Terms and Definitions

The terms and definitions defined in QB/T 2262 apply to this document.

4 Principles

The lower end of a strip of leather was vertically immersed in water. After a specified time, the maximum height of the water stain on the strip of leather was measured (based on this).

(Indicates the water absorption value of the sample) and the water absorption rate of the sample.

5 Instruments and Equipment

5.1

Beaker, low-profile, 250 mL, or other container that meets the conditions listed in Figure 1.