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**Leather - Physical and mechanical tests -
Determination of abrasion resistance**

皮革 物理和机械试验

耐磨性能的测定

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Table of Contents

Foreword	3
1 Scope	5
2 Normative references	5
3 Principle.....	5
4 Equipment	5
5 Sampling and sample preparation.....	6
6 Procedure	7
7 Test report.....	8

Foreword

This Standard modifies the International Union of Leather Technologists and Chemists Societies (IULTCS) standard IUP 48 “Measurement of abrasion resistance of automotive leather”, which has been transformed by the International Standardization Organization (ISO) to ISO/NP 17076:2004 “Leather - Physical and mechanical tests - Determination of abrasion resistance of automotive leather”.

According to the actual situation in China, this Standard has undergone the following technical changes when adopting the UP 48 standard:

- DELETE the word “automotive” in the standard name and scope, to expand the scope of application of the standard;
- In “Normative references”, CHANGE the originally referenced UP standards TO relevant standards of China;
- DELETE the explanatory “NOTE” in “3 Principles”;
- CHANGE the explanatory description in 4.6 TO “NOTE”;
- In order to prevent incorrect understanding of the standard in use, DELETE the reference “NOTE” in 5.2 of the original standard;
- For ease of use, ADD the commonly used number of revolutions for test in 6.2.4;
- DELETE Annex A (Instrument source).

This Standard has also undergone the following editorial changes:

- DELETE the foreword of the UP standard;
- CHANGE the word “this IULTCS standard” TO “this Standard”;
- REPLACE the comma “,” used as decimal point WITH the decimal point “.”.

This Standard was proposed by China National Light Industry Council.

This Standard shall be under the jurisdiction of National Technical Committee on Leather Industry of Standardization Administration of China (SAC/TC 252).

Drafting organizations of this Standard: Zhejiang Kasen Industrial Co., Ltd., China Leather and Footwear Research Institute.

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Leather - Physical and mechanical tests - Determination of abrasion resistance

1 Scope

This Standard specifies the test method for the abrasion resistance of leather.

This standard applies to all kinds of leather that require abrasion resistance.

2 Normative references

The following documents contain the provisions which, through reference in this Standard, become the provisions of this Standard. For dated references, their subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB 250-1995 Gray scale for assessing change in colour (idt ISO 105/A 02)

QB/T 2706 Leather - Chemical, physical and mechanical and fastness tests
- Sampling location

QB/T 2707 Leather - Physical and mechanical tests - Sample preparation
and conditioning

3 Principle

The sample is rotated on a horizontal platform. Two abrasive wheels are pressed against the sample with a certain force. The axis of the abrasive wheels is parallel to the horizontal plane, with one abrasive wheel facing outward and the other facing inward. Within a certain period of time, record all changes in the sample.

4 Equipment

4.1 Sample platform, rotates horizontally, with a speed of (60 ± 5) r/min.

4.2 Sample holder, flat, circular, removable.

6 Procedure

6.1 Preparation of new abrasive wheels

6.1.1 PREPARE new rubber abrasive wheels according to 6.1.2 ~ 6.1.8.
PREPARE new tungsten-carbide abrasive wheels according to 6.1.9.

6.1.2 FIT the rubber abrasive wheels to the pivoted arms (4.3), ensuring that the side with the labels faces outward.

6.1.3 ADD the weights (4.7) so that the weight of each abrasive wheel is 1000 g.

6.1.4 SELECT the appropriate abrasive paper (4.10) and FIT it on the sample holder.

6.1.5 PLACE the abrasive wheels onto the surface of the abrasive paper, TURN ON the vacuum cleaner, SWITCH ON the machine, and RUN for 20 revolutions.

6.1.6 REPLACE the abrasive paper, REPEAT the operation of 6.1.5.

6.1.7 EXAMINE the abrasive wheels, if the color is inconsistent, reprocess with new abrasive paper. If the color is still inconsistent, discard the abrasive wheel.

6.1.8 USE a soft brush or compressed air (4.11) to remove the debris on the surface.

6.1.9 USE a stiff brush (4.12) to brush off the debris on the surface; PREPARE new tungsten-carbide abrasive wheels.

6.2 Abrasion of sample

6.2.1 FIT the prepared new abrasive wheels (6.1) or the adjusted abrasive wheels (6.3) to the pivoted arm (4.3), FIT them correctly, with the labels facing outward.

6.2.2 SELECT the appropriate weight (4.7): 250 g, 500 g, or 100 g.

NOTE: The commonly used weight is 500 g, but the car manufacturer can specify the weight, and the weight used shall be recorded in the test report.

6.2.3 FIT the sample on the sample holder.

6.2.4 PLACE the abrasive wheels onto the surface of the sample, TURN ON the vacuum cleaner, SWITCH ON the machine, and operate with the specified number of revolutions. It may choose from the following number of revolutions: 100, 250, 500, 1000, 2500, 5000.

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