

ICS 59.140

QB

**LIGHT INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

QB/T 2726-2005

**Leather. Physical and mechanical tests. Determination of
abrasion resistance
(English Translation)**

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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.

Main drafters of this Standard. Zhou Xiaosong, Xu Huaihai, Zhu Miaofeng, Shi Jie.

This Standard was issued for the first time.

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

3 Principle

The sample is rotated on a horizontal platform. Two abrasive wheels are pressed against the sample with a certain force.

4.6 Abrasive wheels, tungsten-carbide wheel or rubber wheel, width (12.7 ± 0.1)

mm, maximum diameter 51.7 mm, minimum diameter 44.0 mm. The diameter of the abrasive wheel shall be of the same during the test, and the diameter of the abrasive wheel shall be recorded in the test report.

4.8 Sample mounting sheet, the minimum thickness is 1.0 mm, with an adhesive when necessary, to keep the sample rigid and flat.

4.9 Vacuum cleaner, with a suitable interface to connect to the vacuum suction nozzle (4.4).

5.1 Sampling

CARRY OUT according to the provisions of QB/T 2706.

5.3 Air conditioning of sample

CARRY OUT according to the provisions of QB/T 2707.

6.1 Preparation of new abrasive wheels

new tungsten-carbide abrasive wheels.

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.

6.2.4 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.

6.2.7 REPEAT 6.2.6, and CARRY OUT the test with the number of revolutions specified in 6.2.4.

6.3.1 ADJUST the rubber abrasive wheels according to 6.3.2 ~ 6.3.7. ADJUST the tungsten-carbide abrasive wheels according to 6.3.8.

6.3.3 ADD weights according to the provisions of 4.7, to make the weight of the abrasive wheels be 1000 g.

6.3.8 USE a stiff brush (4.12) to remove the debris on the tungsten-carbide abrasive wheels, and USE a piece of abrasive paper (4.10) to remove the burrs on the edge of the abrasive wheels.

7 Test report

The test report shall include the following.

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