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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 43.040.40

Q 69

GB 5763-2018

Replacing GB 5763-2008

Brake Linings for Automobiles

汽车用制动器衬片

Issued on: November 19, 2018

Implemented on: October 1, 2019

Issued by: State Administration for Market Regulation;

**Standardization Administration of the People's Republic of
China.**

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Foreword

This Standard is compulsory in full-text.

This Standard is drafted in accordance with the stipulations in GB/T 1.1-2009.

This Standard serves as a replacement of GB 5763-2008 Brake Linings for Automobiles. In comparison with GB 5763-2008, there are several main technical changes as follows:

- Compulsory in provisions is modified into compulsory in full-text (please refer to this Foreword; Foreword in Version 2008);
- There are changes in normative references (please refer to Chapter 2; Chapter 2 in Version 2008);
- All terms and definitions are modified (please refer to Chapter 3; Chapter 3 in Version 2008);
- Classification is deleted (please refer to Chapter 4 in Version 2008);
- “Technical Requirements” is modified into “Basic Requirements Regarding Health and Safety” (please refer to Chapter 4; Chapter 5 in Version 2008);
- The technical requirements and corresponding test methods of “appearance quality”, “dimensional deviation”, “impact strength”, “thermal expansion rate” and “compressive strain” are deleted (please refer to 5.1, 5.2, 5.5, 5.6 and 5.7 in Version 2008; 6.1, 6.2, 6.4, 6.5, 6.6 and 6.7);
- The requirements and test methods of “harmful elements limit” are added (please refer to 4.1, 5.1 and 5.2);
- The friction performance requirement is modified from “friction coefficient of various test temperatures of constant-speed friction test, allowable deviation of appointed friction coefficient and abrasion rate” into “small sample bench test room temperature and high-temperature friction coefficient of drum brake lining adopted on Type-M₁, Type-M₂, Type-N₁, Type-O₁, Type-O₂ vehicle” and “disc lining and working friction coefficient deviation of drag test of friction performance of drum brake lining adopted on Type-M₃, Type-N₂, Type-N₃, Type-O₃, Type-O₄ vehicle”; test method is also correspondingly modified (please refer to 4.2 and 5.3; 5.3 and 6.3 in Version 2008);
- The requirement that “shear strength of bonded rubber base drum brake lining at room temperature shall be not less than 1.0 MPa; the area of lining that remains on the shoe after test shall be not less than 70%” is added (please refer to 4.3);

Brake Linings for Automobiles

1 Scope

This Standard specifies the terms and definitions, the basic requirements regarding health and safety, test methods, inspection rules, marking, packaging, transportation and storage of brake linings for automobiles.

This Standard is applicable to brake linings for automobiles (hereinafter referred to as "linings").

2 Normative References

The following documents are indispensable to the application of this Standard. In terms of references with a specified date, only versions with a specified date are applicable to this Standard. The latest version (including all the modifications) of references without a specified date is also applicable to this Standard.

GB/T 5620 Road Vehicles - Braking of Automotive Vehicles and Their Trailers - Vocabulary

GB/T 15089 Classification of Power-driven Vehicles and Trailers

GB/T 17469 Characteristics Evaluation of Brake Lining for Automobile - Small Sample Bench Test Method

GB/T 22309 Road Vehicles - Brake Linings - Shear Test Procedure for Disc Brake Pad and Drum Brake Shoe Assemblies

GB/T 23263 Determination of Asbestos in Products

GB/T 34007 Road Vehicles - Brake Lining Friction Materials - Drag Test Method for Friction Performance

JC/T 2268 Measurement of Copper and Other Elements in Brake Friction Materials

3 Terms and Definitions

What is defined in GB/T 5620 and GB/T 15089, and the following terms and definitions are applicable to this document.

3.1 Coefficient of Friction

Coefficient of friction refers to the ratio of the tangential force (namely, friction) that

working friction coefficient;

- b) After the test is completed, the lining shall manifest no stratification or chip-falling, etc.

4.3 Shear Strength

4.3.1 The shear strength of bonded resin base drum lining at room temperature shall be not less than 1.5 MPa.

4.3.2 The shear strength of bonded rubber base drum lining at room temperature shall be not less than 1.0 MPa; after the test, the area of lining that remains on the shoe shall not be less than 70%.

4.3.3 The shear strength of bonded disc lining at room temperature shall be not less than 2.5 MPa.

5 Test Methods

5.1 Determination of Asbestos Content

The determination of asbestos content shall comply with GB/T 23263.

5.2 Determination of Harmful Elements

The determination of cadmium, hexavalent chromium, lead and mercury shall comply with JC/T 2268.

5.3 Friction Performance Test

5.3.1 Small sample bench test

The small sample bench test of friction performance of drum lining adopted on Type-M₁, Type-M₂, Type-N₁, Type-O₁, Type-O₂ vehicle shall comply with GB/T 17469.

5.3.2 Friction performance drag test

The friction performance drag test of disc lining, and drum lining adopted on Type-M₃, Type-N₂, Type-N₃, Type-O₃, Type-O₄ vehicle shall comply with GB/T 34007.

5.4 Shear Strength Test

Shear strength test shall comply with GB/T 22309.

6 Inspection Rules

6.1 Inspection Items

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