

ICS 43.040.40

CCS Q 69



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

GB/T 26738-2011

**Road vehicles -- Brake lining friction materials -- Product
definition and quality assurance**

道路车辆 制动衬片摩擦材料 产品确认和质量保证

(English Translation)

Issued on: July 20, 2011

Implemented on: March 1, 2012

Issued by: Standardization Administration of China

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard uses the translation method identical with ISO 15484:2008 "Road vehicles - Brake lining friction materials product validation and quality Guarantee".

Correspondence between the consistency of the standards of international and foreign normative documents referenced in our country with the following documents.

--- GB/T 5764-1998 automobile clutch of films (JISD4311-1995, NEQ)

--- GB/T 5766-2007 friction materials Rockwell hardness test methods (JISD4421-1996 (2006), NEQ)

--- GB/T 22309-2008 Road vehicles - Brake linings disc brake pads and drum brake shoe assembly shear strength test Test methods (ISO 6312:2001, IDT)

--- GB/T 22311-2008 Road vehicles - Brake linings compressive strain test methods (ISO 6310:2001, IDT) this standard made the following editorial changes.

--- Canceled footnote in Chapter 2, because "SAEJ2694" was released September 30, 2009;

--- The FIGS. 2 to 5 and Table A.6 Standard "ISO 15484" with the number of this standard in place;

--- Will be described FIGS. 2 to 5 below, note, notes, etc. moved within the chart.

The standard proposed by China Building Materials Federation.

The standard and non-metallic mineral products by the National Standardization Technical Committee (SAC/TC406) centralized.

This standard was drafted. Dongying Xinyi Automobile Parts Co., Ltd., Shenzhen Institute of Standards and Technology, Fujian auto parts industry has a good crown Ltd., Shandong Kun Auto Parts Co., Ltd., Hangzhou Yuhang Eagle Friction Materials Co., Ltd., Shijiazhuang TMD Friction Materials Co., Division Xianyang Institute of non-metallic minerals.

Introduction

For wheel brakes, the disc and drum friction materials are important functional parts. During braking, the brake by the driver Clamping force structure generated by the friction material is pressed against the rotating brake drum or brake disc. Such cars with a kinetic energy in the most conversions Heat. For the comfort and braking performance brake system, the disc brake pads and drum brake linings and an important basis for use. Disc brake pad friction material includes friction material itself and carry back, in some cases, as well as reduce noise attachments, grinding Loss alarm device, location or orientation of components. Typically friction material is permanently bonded to the back plate, this should work through a bond Order to achieve, in the process friction material is subjected to the action of heat and pressure. Between the friction material and the back plate can be embedded in the primer, so You can improve the adhesion strength and other characteristics. Drum brake linings is the friction material itself, its shape and then mated to the brake shoe Consistent radius. Usually glued or riveted way friction material and the support of the brake shoes together. Generally, the friction material Fibrous materials, adhesives, anti-adhesive, metal and other filler. Friction material type, metal back, noise devices, fixed and spring Wear warning devices determined by the corresponding drawings.

The basic purpose of the development of this standard are.

--- To ensure that the product has been verified and approved at all stages of development,

so that a smooth transition to full production;

--- Improve product reliability while reducing cost of test;

--- Establish the necessary and, unanimously approved test criteria include performance and noise, including.

The main reason for using the statistical method of evaluation is due to the extension of the production process and compression ratio of the area of the test piece varies. The standard Procedures involved are quasi-ISO/T S16949 basis, covering the entire product quality planning process, start straight from the product definition phase to determine the parameters of formal production. These are standard in this phase 1 to phase 7 made provision.

Road vehicles - Brake lining friction materials Product validation and quality assurance

1 Scope

The proposed standard procedures applicable to the motor vehicle disc brake pad and drum brake linings, and the quality assurance systems of these linings Described.

Including the tolerance range, including the test methods and test results set forth in this standard allows for disc brake pads make a quick comment.

Since the unified product development at all stages of the work program, so that in between customers and suppliers, not only with the quality assurance requirements A clear and consistent understanding of the program and make global applications possible.

This standard relates to the entire friction material for friction materials from product development to quality assurance of the production process, as the focus "Element" of the friction material. So the test to avoid the obvious "system" feature is reasonable.

Raw material inspection and process control are outside the scope of this standard.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member, undated references, the latest edition (including any amendments) applies to this document.

ISO 2812-1 Paints and varnishes - determination of resistance to liquids - Part 1. Immersion (Paints and in liquids other than water in varnishes-Determination of resistance to liquids-Part 1. Immersion in liquid other than water) Strain test method ISO 6310 Road vehicles - Brake linings compression (Road vehicles-Brake linings-Compressive strain test methods) ISO 6312 Road vehicles - Brake linings disc brake pads and drum brake shoe assembly shear strength test method (Road vehicles-Brake linings-Shear test procedure for disc brake pad and drum brake shoe assemblies)

ISO/PAS22574 Road vehicles - Brake lining friction materials visual inspection
(Roadvehicles-Brakelinings frictionmaterials-Visualinspection) ISO 26865 Road vehicles -
Brake lining friction materials commercial vehicle air brake standard performance test
procedures
(Roadvehicles-Brakeliningsfrictionmaterials-Standardperformancetestprocedureforcommerc
ialvehicleswithair brakes) ISO 26866 Road vehicles - Brake linings commercial vehicle air
brake friction material wear standard test procedures (Roadvehicles-Brake
liningsfrictionmaterials-Standardweartestprocedureforcommercialvehicleswithairbrakes)
ISO 26867 Road vehicles - Brake lining friction materials Friction motor vehicle braking
system performance assessment
(Roadvehicles-Brakeliningsfrictionmaterials-Frictionbehaviourassessmentforautomotivebrak
esystems) ISO 27667 Road vehicles - Brake lining friction materials coated brake shoe
back and the impact of anti-corrosion evaluation methods
(Roadvehicles-Brakeliningsfrictionmaterials-Evaluationofcorrosioneffectsonpaintedbacking
platesandbeakeshoes) JASOC458-86 automobile brake linings (block) and clutch facings
pH value of the test procedure (TestprocedureofpHforbrake linings,
padsandclutchfacingsofautomobiles) JISD4311 automobile clutch facings
(Clutchfacingsofautomobile) JISD4421 automobile brake linings (block) and clutch facings
hardness test (Methodofhardnesstestforbrake