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Drum brake linings for automobile

汽车用鼓式制动片

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Drum brake linings for automobile

1 Scope

This Standard specifies the terms and definitions, requirements, test methods, inspection rules, marking, packaging, transportation and storage of drum brake linings for automobiles (hereinafter referred to as “braking linings”).

This Standard applies to drum brake linings for vehicles of categories M, N and O.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition dated applies to this document. For undated references, the latest edition of the referenced documents (including all amendments) applies to this document.

GB/T 2828.1, *Sampling procedures for inspection by attributes – Part1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection* (GB/T 2828.1-2012, ISO 2859-1:1999, IDT)

GB/T 5620, *Road vehicles – Braking of automotive vehicles and their trailers – Vocabulary* (GB/T 5620-2002, idt ISO 611:1994)

GB 5763-2018, *Brake linings for automobiles*

GB/T 15089, *Classification of power-driven vehicles and trailers*

GB/T 26739, *Road vehicles – Brake linings – Test method for internal shear strength of lining material*

GB/T 33835, *Test method of impact strength for friction material*

JC/T 685, *Test method for density of friction material*

JC/T 2103-2012, *Road vehicles – Brake linings friction materials – Visual inspection* (JC/T 2103-2012, ISO/PAS 22574:2007, IDT)

QC/T 239, *Specifications and bench test methods for commercial vehicle service brake*

category N

Power-driven vehicles having at least four wheels and used for the carriage of goods.

[GB/T 15089-2001, Definition 3.3]

3.2.1

category N₁

Vehicles used for the carriage of goods and having a maximum mass not exceeding 3.5 tonnes.

[GB/T 15089-2001, Definition 3.3.1]

3.2.2

category N₂

Vehicles used for the carriage of goods and having a maximum mass exceeding 3.5 tonnes but not exceeding 12 tonnes.

[GB/T 15089-2001, Definition 3.3.2]

3.2.3

category N₃

Vehicles used for the carriage of goods and having a maximum mass exceeding 12 tonnes.

[GB/T 15089-2001, Definition 3.3.3]

3.3

category O

Trailers (including semi-trailers).

[GB/T 15089-2001, Definition 3.4]

3.3.1

category O₁

Trailers with a maximum mass not exceeding 0.75 tonnes.

[GB/T 15089-2001, Definition 3.4.1]

5.3 Basic requirements concerning health and safety

Basic requirements concerning health and safety shall be tested as specified in Clause 5 of GB 5763-2018.

5.4 Impact strength test

Impact strength of brake linings shall be tested as specified in GB/T 33835.

5.5 In-plane shear strength test

In-plane shear strength of brake linings shall be tested as specified in GB/T 26739.

5.6 Density

Density of brake linings shall be tested as specified in JC/T 685.

5.7 Braking performance test

5.7.1 Braking performance of drum brake linings for vehicles of category M₁ shall be tested as specified in QC/T 564.

5.7.2 Braking performance of drum brake linings for vehicles of categories M₂, M₃, N and O shall be tested as specified in QC/T 239.

6 Inspection rules

6.1 Inspection classification

6.1.1 Exit-factory inspection

The items of exit-factory inspection: appearance quality, dimensions, exit-factory inspection items of GB 5763-2018, impact strength, in-plane shear strength, density.

6.1.2 Type inspection

The items of type inspection include all the items as specified in Clause 4.

Type inspection shall be carried out in one of the following cases:

- a) when a new product is put into production in commission;
- b) when production is resumed after a long term of production halt;
- c) when there is any significant change in material or technology, possibly influencing the properties of products;

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