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NATIONAL STANDARD

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GB/T 26649-2011

Magnesium alloy castings for automobile wheels

镁合金汽车车轮铸件

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Issued on: June 16, 2011

Implemented on: March 01, 2012

Issued by: General Administration of Quality Supervision, Inspection and Quarantine;

Standardization Administration of PRC.

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Foreword

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

This standard was proposed by AND shall be under the jurisdiction of the National Technical Committee for Standardization of Foundry (SAC/TC 54).

This standard was responsibly drafted by Weihai Wanfeng Magnesium Science and Technology Development Co. Ltd.

The participating drafting organizations of this standard: Chongqing Boao Magnesium Aluminium Metal Manufacturing Co., Ltd., Kunshan Liufeng Machinery Industrial Co., Ltd., Dongguan Yian Technology Co., Ltd., Jiangsu Yuantong Auto Parts Co., Ltd., Shanghai Jiaotong University, Shenyang Foundry Research Institute.

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Magnesium alloy castings for automobile wheels

1 Scope

This standard specifies the terms and definitions, technical requirements, test methods, inspection rules and marking, transport and storage, etc., for the magnesium alloy castings for automotive wheels.

This standard applies to magnesium alloy castings for automotive wheels.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this Standard.

GB/T 228 Metallic materials – Tensile testing at ambient temperature (GB/T 228-2002, eqv ISO 6892:1998)

GB/T 231.1 Metallic materials – Brinell hardness test – Part 1: Test method (GB/T 231.1-2009, ISO 6506-1:2005, MOD)

GB/T 6414 Castings – System of dimensional tolerances and matching allowances (GB/T 6414-1999, eqv ISO 8062:1994)

GB/T 13820 Alloy castings

GB/T 26654 Casting magnesium alloys for automobile wheels

3 Terms and definitions

3.1 Definitions

The following terms and definitions apply to this document.

3.1.1

Magnesium alloy castings for automotive wheels

5 Test methods

5.1 Material inspection

5.1.1 The chemical composition analysis shall be conducted in accordance with the relevant provisions of GB/T 26654.

5.1.2 The mechanical properties test methods shall be conducted in accordance with the provisions of GB/T 228 and GB/T 231.1.

5.2 Surface quality inspection

CONDUCT visual inspection against the standard sample wheel.

5.3 Internal quality inspection

The internal quality inspection of wheel castings shall be conducted in accordance with the provisions of GB/T 13820.

6 Inspection rules

6.1 Exfactory inspection

6.1.1 The exfactory inspection items are 4.1, 4.2, 4.3 and 4.4.

6.1.2 Each piece of wheel castings shall be subjected to exfactory inspection, AND if one item fails to reach to requirements, the corresponding casting shall be considered as unqualified.

6.2 Batching

The castings of the same heat are considered as one batch.

6.3 Principles for sampling and determination

The items which must be inspected as specified will be subjected to inspection one by one; the items which must be spot inspected as specified will be subject to spot inspection, during which 3 pieces will be randomly sampled from the same batch of castings for inspection, if one or more items are disqualified, multiple samples may be taken for re-inspection; if there is still unqualified items, this batch of wheel castings are judged as disqualified.

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