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

GB/T 26650-2025

Replacing GB/T 26650-2011

**Magnesium alloy castings for motorcycle and electric bicycle
wheels**

摩托车和电动自行车用镁合金车轮铸件

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1 Scope

This document specifies the technical requirements, test methods, inspection rules, marking, quality certificate, packaging, transportation and storage of magnesium alloy wheel castings for motorcycles and electric bicycles.

This document applies to the manufacture of magnesium alloy wheel castings for motorcycles and electric bicycles (hereinafter referred to as the wheel castings).

2 Normative References

GB/T 228.1

GB/T 231.1

GB/T 5611

GB/T 6414-2017

GB/T 13748.21

GB/T 25747-2022

GB/T 39638

3 Terms and Definitions

The terms and definitions defined in GB/T 5611 are applicable to this document.

4.5 Surface Quality

4.5.1 The surface of the wheel castings shall be smooth and free of scabs, under-casting,

cracks, porosity, holes, cold shuts and damage that may affect strength.

4.5.2 The tyre mounting surface and the area around the valve hole of the wheel castings shall be free of defects that may damage the outer or inner tube or affect valve function.

4.5.3 The rim area of tubeless wheel castings shall be free of holes, slag inclusions or cracks that may affect air-tightness.

4.5.4 Casting defects within the machining allowances are permitted on the wheel castings.

5.1 Chemical Composition

The inspection method for chemical composition shall be in accordance with the provisions of GB/T 13748.21.

5.2 Mechanical Properties

5.2.1 The tensile test method shall be in accordance with the provisions of GB/T 228.1.

5.2.2 The hardness test method shall be in accordance with the provisions of GB/T 231.1.

5.3 Dimensional and Geometrical Tolerances

The dimensional and geometrical tolerances of the wheel castings shall be inspected using testing tools that meet precision requirements.

5.4 Internal Quality

Internal defects of the wheel castings shall be inspected by non-destructive X-ray testing, and the inspection method shall be in accordance with the provisions of GB/T 39638.

5.5 Surface Quality

The surface quality of the wheel castings shall be visually inspected.

6.1 Batch Grouping

Castings of the same designation, produced on the same casting machine, using the same mold, and produced continuously in the same shift are considered a batch. Special batch grouping shall be determined by agreement between the supply-side and the demand-side.

6.2 Inspection Items

Inspection is classified into exit-factory inspection and type inspection. The inspection items for exit-factory inspection and type inspection are shown in Table 4.

6.3 Sampling

See Table 5 for the provisions for the sampling of the wheel castings.

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