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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

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Replacing GB/T 13822-1992

Test specimens for nonferrous diecasting alloys

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Foreword

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

This Standard replaces GB/T 13822-1992 *Specimens for nonferrous diecasting alloys*.

Compared with GB/T 13822-1992, the major changes of this Standard are as follows:

- Modify the pouring system and exhausting system of the process diagram of test specimens for diecasting alloys, to be closer to the actual diecasting production;
- Modify the arrangement of test specimens on the diecasting process diagram;
- Add that diecasting enterprises can adjust diecasting process parameters according to actual production conditions.

This Standard shall be under the jurisdiction of National Technical Committee 54 on Foundry of Standardization Administration of China (SAC/TC 54).

The organization responsible for the drafting of this Standard: Guangdong Hongtu (Nantong) Die-casting Co., Ltd.

Organizations participating in the drafting of this Standard: Zhejiang Huashuo Technology Co., Ltd., CITIC Dicastal Co., Ltd., Sanmenxia Dicastal Wheel Manufacturing Co., Ltd., Baoji Titanium Industry Co., Ltd., Xiongbang Die Casting (Nantong) Co., Ltd., Dongfeng (Shiyan) Nonferrous Castings Co., Ltd.

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The historical version replaced by this Standard is:

- GB/T 13822-1992.

Test specimens for nonferrous diecasting alloys

1 Scope

This Standard specifies the type, size and requirements of test specimens for nonferrous diecasting alloys.

This Standard applies to the preparation of test specimens for mechanical property of nonferrous diecasting alloys.

2 Normative references

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

GB/T 231.1, Metallic materials - Brinell hardness test - Part 1: Test method

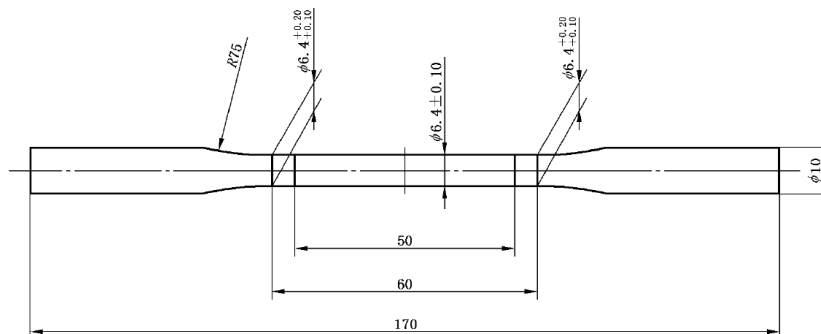
3 Type and size of test specimens

3.1 Tensile test specimen

3.1.1 Type A tensile test specimen

Type A tensile test specimen – whose shape and size shall comply with the regulations in Figure 1 – applies to the determination of tensile strength, yield strength and elongation of nonferrous diecasting alloys under different heat treatment states.

in millimeters



for nonferrous diecasting alloys. Diecasting enterprises can choose in Appendix A and adjust the diecasting process parameters in Appendix B according to actual production conditions.

4.2 The impact of low-speed diecasting, vacuum diecasting and other processes on the preparation of test specimens are not taken into account in this Standard. If necessary, the supplier and the purchaser can negotiate and agree on various technical requirements in the preparation process of test specimens.

4.3 The test specimen shall be cast from nonferrous metal molten in the same batch as the die casting.

4.4 The test specimen shall be cleaned of burrs, and shall not be bent and straightened. According to the requirements of the delivery state of the casting, the same heat treatment process shall be adopted for the test specimen and the casting.

4.5 The non-clamping part of the test specimen shall not have defects such as ejector pin marks, scratches, pockmarks, cold shuts, cracks, inclusions and surface holes.

4.6 The two ends of the test specimen shall be ground and smoothed, and the feed port and slag bag port shall be removed.

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