



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

GB/T 26655-2022

Compacted(vermicular) graphite iron castings

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents" drafted.

This document replaces GB/T 26655-2011 "Vermicular Graphite Iron Castings", compared with GB/T 26655-2011, except for structural adjustment and editorial

In addition to the changes, the main technical changes are as follows.

- a) Changed the scope of application of the document (see Chapter 1, Chapter 1 of the.2011 edition);
- b) Changed normative references (see Chapter 2, Chapter 2 of the.2011 edition);
- c) Changed and added terms and definitions (see 3.1~3.6, Chapter 3 of the.2011 edition);
- d) Changed the grades of compacted graphite cast iron (see 4.1, 4.2, Table 1, Table 2, Chapter 4 of the.2011 edition);
- e) Changed and added technical requirements (see 7.1, 7.3, 7.4, 7.6, 7.10, 7.12, Chapter 7 of the.2011 edition);
- f) The content of the test method has been changed, and the form of the cast test block, the specification of the sample and the sampling method have been added (see 8.1~8.4, 8.6, 8.7, Chapters 8 and 9 of the.2011 edition);
- g) Changed the content of inspection rules (see 9.2, 9.3, 9.5, Chapter 10 of the.2011 edition);
- h) Changed the labeling, quality certificate, packaging and storage and transportation content (see 10.1, 10.2, Chapters 12 and 13 of the.2011 edition).

This document uses the redrafting method to modify and adopt ISO 16112:2017 "Classification of Compacted Graphite Iron".

Compared with ISO 16112.2017, this document has more structural adjustments. Appendix A lists this document and ISO 16112.2017.

Compared with the change of chapter numbering list.

There are many technical differences between this document and ISO 16112.2017. The corresponding technical differences and their reasons are given in Appendix B.

list.

The following editorial changes have been made to this document.

--- Increase the content of identification, quality certificate, packaging and storage (see Chapter 10);

--- According to ISO 945-4.2019, the relevant content and formulas in Appendix F are also modified; the roundness coefficient less than 0.1 is deleted.

vermicular graphite particles (see Appendix F);

--- Added informative Appendix G.

Certain contents of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the grades, ordering information, production method and chemical composition, technical requirements, test methods, inspection rules,

Identification, quality certificate, rust prevention, packaging and storage.

This document applies to vermicular graphite iron castings cast in a sand mold or a mold with a thermal conductivity comparable to that of a sand mold. Compacted graphite cast produced by other casting methods

Iron parts can be used for reference.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to

this document.

GB/T 223.3 Methods for chemical analysis of iron, steel and alloys-Dianitpyrine methane phosphomolybdc acid gravimetric method for the determination of phosphorus content

GB/T 223.4 Potentiometric titration or visual titration method for determination of manganese content in iron, steel and alloys

GB/T 223.60 Chemical analysis methods of iron, steel and alloys Determination of silicon content by perchloric acid dehydration gravimetric method

GB/T 223.72 Determination of Sulfur Content of Iron, Steel and Alloy Gravimetric Method

GB/T 223.86 Determination of total carbon content of iron, steel and alloys by infrared absorption method after induction furnace combustion

GB/T 228.1 Tensile test of metallic materials Part 1. Test method at room temperature (GB/T 228.1-2010, ISO 6892-1.

2009, MOD)

GB/T 231.1 Brinell hardness test of metallic materials Part 1. Test method (GB/T 231.1-2018, ISO 6506-1.

2014, MOD)

GB/T 4336 Determination of multi-element content of carbon steel and medium and low alloy steel spark discharge atomic emission spectrometry (conventional method)

GB/T 5611 Casting Terminology

GB/T 5612 Cast iron grades representation method (GB/T 5612-2018, ISO /T R15931.2004, MOD)

GB/T 5677 Radiographic Inspection of Castings

GB/T 6060.1 Surface Roughness Comparison Sample Part 1. Casting Surface

GB/T 6414 Casting Dimensional Tolerance, Geometric Tolerance and Machining Allowance

GB/T 9443 Penetration testing of steel and iron castings

GB/T 9444 Magnetic particle inspection of steel and iron castings

GB/T 11351 Casting Weight Tolerance

GB/T 15056 Evaluation method of casting surface roughness

GB/T 20123 Determination of total carbon and sulfur content of iron and steel by infrared absorption method after high-frequency induction furnace combustion (conventional method)

GB/T 24234 Determination of multi-element content of cast iron Spark discharge atomic emission spectrometry (conventional method)

GB/T 26656 Metallographic examination of vermicular graphite cast iron

GB/T 34904 Ultrasonic testing of ductile iron castings

GB/T 38441 Pig iron and cast iron Determination of chromium, copper, magnesium, manganese, molybdenum, nickel, phosphorus, tin, titanium, vanadium and silicon inductively coupled plasma

sub-emission spectroscopy

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