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**Compacted vermicular graphite cast
irons**

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Foundry Society, Inc. (JFSinc)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS G 5505**:2013), which has been technically revised.

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Compacted vermicular graphite cast irons

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 16112:2017**, Edition 2, with some modifications of the technical contents.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JB.

1 Scope

This Standard specifies requirements for CV graphite cast irons (hereafter referred to as castings).

NOTE 1 CV stands for “compacted vermicular”.

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 16112:2017 *Compacted (vermicular) graphite cast irons—Classification* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 0403 *Castings—System of dimensional tolerances and machining allowances*

JIS G 0201 *Glossary of terms used in iron and steel (Heat treatment)*

JIS Z 2241 *Metallic materials—Tensile testing—Method of test at room temperature*

JIS Z 2243-1 *Brinell hardness test—Part 1: Test method*

NOTE Corresponding International Standard: ISO 6506-1 *Metallic materials—Brinell hardness test—Part 1: Test method*

JIS Z 2300 *Terms and definitions of nondestructive testing*

ISO 945-1 *Microstructure of cast irons—Part 1: Graphite classification by visual analysis*

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions, and those given in **JIS B 0403**, **JIS G 0201** and **JIS Z 2300** apply.