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**Spheroidal 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 5502 : 2007**), which has been technically revised.

However, **JIS G 5502 : 2007** may be applied in the **JIS** mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 19 April 2023.

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# Spheroidal graphite cast irons

## Introduction

This Japanese Industrial Standard has been prepared based on **ISO 1083** : 2018, Edition 4, by incorporating the part corresponding to this Standard without any modifications of the technical contents, but also adding some **JIS** specification contents that are not given in the said corresponding International Standard.

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 JC. Annex JA and Annex JB are unique to **JIS** and not given in the corresponding International Standard.

## 1 Scope

This Standard specifies the requirements for spheroidal graphite cast irons (hereafter referred to as cast irons).

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

ISO 1083 : 2018 *Spheroidal graphite cast irons — Classification* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard 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 G 0320 *Standard test method for heat analysis of steel products*

JIS G 1253 *Iron and steel — Method for spark discharge atomic emission spectrometric analysis*

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

**NOTE** Normative reference in the corresponding International Standard : ISO 6892-1 *Metallic materials — Tensile testing — Part 1 : Method of test at room temperature*