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In the event of any doubts arising as to the contents,
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Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Divisions and designations	5
5 Order information	6
6 Manufacture	6
7 Requirements	6
7.1 General	6
7.2 Tensile properties	7
7.3 Impact property	9
7.4 Chemical composition	10
7.5 Hardness	10
7.6 Graphite form and microstructure	10
7.7 Specific mechanical properties	11
7.8 Physical properties	11
7.9 Internal soundness	11
7.10 Shape, dimensions, dimensional tolerances, machining allowances, draft angle, and mas.	11
7.11 Appearance	11
8 Samples	11
8.1 Sampling	11
8.2 Samples used for tensile test	18
8.3 Samples used for impact test	18
8.4 Samples used for chemical analysis	19
8.5 Samples used for hardness test	19
8.6 Samples used for graphite form and microstructure tests	19
8.7 Samples used for specific mechanical properties tests	19
8.8 Samples used for physical properties tests	19
9 Heat treatment	19
9.1 General	19
9.2 Heat treatment on samples	19
10 Test pieces	19
10.1 Test units and number of tests	19
10.2 Cutting method, shapes, dimensions and number of test pieces	20

11	Test methods	22
11.1	Tensile test	22
11.2	Impact test	22
11.3	Chemical analysis	22
11.4	Hardness test	22
11.5	Graphite forms and microstructure tests	23
11.6	Specific mechanical properties tests	23
11.7	Physical properties tests	23
11.8	Internal soundness test	23
11.9	Appearance test	23
12	Retests	23
12.1	Need for retests	23
12.2	Test invalid conditions	24
12.3	Retests of invalid cast irons	24
13	Heat treatment of non-conforming cast irons	25
13.1	General	25
13.2	Heat-treatment of cast irons as-cast condition	25
13.3	Re-heat-treatment of heat-treated cast irons	25
13.4	Retest of heat-treated cast irons	25
14	Inspections	25
15	Marking	26
16	Report	26
Annex A (informative)	Additional information on solid solution strengthened ferritic spheroidal graphite cast irons	27
Annex B	(Not applicable to this Standard.)	30
Annex C	(Not applicable to this Standard.)	31
Annex D (informative)	Guidance values for tensile properties measured on test pieces cut from a casting	32
Annex E (informative)	Classification as a function of hardness	34
Annex F (normative)	Measurement of graphite nodularity (ISO method)	41
Annex G (informative)	Additional information on mechanical and physical properties	44
Annex H (informative)	Sectioning procedure for cast samples	46
Annex I (informative)	Cross-references of designations among JIS, ISO Standard and other standards of spheroidal graphite cast irons	47
Annex JA (normative)	Measurement of graphite nodularity of cast irons by image analysis (JIS method)	48

Annex JB (normative)	Measurement of graphite nodularity by ultrasonic wave propagation velocity (sound velocity method)	51
Annex JC (informative)	Comparison table between JIS and corresponding International Standard	69

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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 5201 *Glossary of terms used in iron and steel (Heat treatment)*

JIS G 5320 *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*