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Austenitic iron castings

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

This translation has been made based on the original Japanese Industrial Standard 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 (JFS)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS G 5510:1999** is replaced with this Standard.

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Austenitic iron castings

Introduction

This Japanese Industrial Standard has been prepared based on the second edition of **ISO 2892** published in 2007 with some modifications of the technical contents.

The portions given dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies austenitic iron castings (hereafter referred to as “castings”).

This Standard specifies the grades of castings in terms of the following **a)** to **c)**.

- a) Graphite form and matrix structure (including either flake or spheroidal graphite in an austenitic matrix)
- b) Chemical composition as given for each of the grades
- c) Mechanical properties obtained from separately cast samples

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

ISO 2892:2007 *Austenitic 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 Z 2241 *Metallic materials—Tensile testing—Method of test at room temperature*

NOTE : Corresponding International Standard: ISO 6892-1 *Metallic materials—Tensile testing—Part 1: Method of test at room temperature* (MOD)

JIS Z 2242 *Method for Charpy pendulum impact test of metallic materials*

JIS Z 8401 *Guide to the rounding of numbers*