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Malleable iron castings

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In the event of any doubts arising as to the contents,
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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 Pipe Fittings Association (JPFA)/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 5705**:2000 is replaced with this Standard.

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Malleable iron castings

Introduction

This Japanese Industrial Standard has been prepared based on the **ISO 5922:2005**, 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 whiteheart malleable cast iron, blackheart malleable cast iron and pearlitic malleable cast iron, used in the manufacture of castings. Classification is given for each type of malleable cast iron on the basis of mechanical properties. This Standard is applicable only to malleable cast iron cast into sand moulds or moulds of comparable thermal diffusivity.

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

ISO 5922:2005 *Malleable cast iron* (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 B 2051 *Malleable iron and ductile iron valves*

JIS B 2239 *Cast iron pipe flanges*

JIS B 2301 *Screwed type malleable cast iron pipe fittings*

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

JIS G 0202 *Glossary of terms used in iron and steel (Testing)*

ISO 1211-3 *Iron and steel—Determination of carbon content—Part 3: Infrared absorption method after combustion*

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

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

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*