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**NATIONAL STANDARD  
OF THE PEOPLE'S REPUBLIC OF CHINA**

**中华人民共和国国家标准**

**GB/T 9440-2010**

**Replace GB/T 9440-1988**

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**Malleable Iron Castings**

**可锻铸铁件**

(ISO 5922: 2005, MOD)

**Issued on: December 23, 2010**

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**Jointly Issued by the General Administration of Quality Supervision,  
Inspection and Quarantine (AQSIQ) and the  
Standardization Administration (SAC) of the People's  
Republic of China**

## Foreword

This standard is modified in relation to ISO 5922: 2005 "Malleable cast iron". in addition to editorial modification on standard construction, compared with ISO 5922: 2005, this standard has the following difference in the main technical contents:

- The repetitive marks and some technical requirements in ISO 5922: 2005 were deleted.
- Terms and definitions were deleted.
- The contents of castings testing were added.

This standard replaces GB/T 9440 GB/T 9440 1988 "Malleable iron castings".

Compared with the former GB/T 9440-1988, this standard has the following the main technical contents revised:

- The terms and definitions described in GB/T 5611 "Foundry terminology" were deleted.
- Five designations were added.
- Technical requirements on impact property, metallographic structure and appearance quality, etc. were added.

Appendix A of this standard is informative.

This standard was proposed and is under the jurisdiction of National Technical Committee on Foundry of Standardization Administration of China (SAC/TC 54).

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The previous editions of the standards replaced by this standard are as:

- GB 978-1967:
- GB 5679-1985:
- GB/T 9440-1988.

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# Malleable Iron Castings

## 可锻铸铁件

### 1 Scope

This standard specifies the classification and designation, technical requirements, test methods, inspection rules, marking of castings, surface protection, packaging, storage and transportation requirements of malleable iron castings.

This standard is applicable to malleable iron castings cast into sand moulds or moulds of comparable thermal conductivity.

Other mold casting malleable iron castings may use it by reference.

### 2 Normative References

The following standards contain provisions which, through reference in this standard, constitute provisions of this standard. For dated reference, subsequent amendments to (excluding correction to), or revisions of, any of these publications do not apply. However, the parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards. For undated references, the latest edition of the normative document referred to applies.

GB/T 223.12 Methods for Chemical Analysis of Iron, Steel and Alloy- The Sodium Carbonate Separation-Diphenyl Carbazide Photometric Method for the Determination of Chromium Content

GB/T 223.59 Iron steel and alloy-Determination of phosphorus content-Bismuth phosphomolybdate blue spectrophotometric method and antimony phosphomolybdate blue spectrophotometric method

GB/T 223.60 Methods for chemical analysis of iron, steel and alloy The perchloric acid dehydration gravimetric method for the determination of silicon content

GB/T 223.63 Methods for Chemical Analysis of Iron, Steel and Alloy; The Sodium (Potassium) Periodate Photometric Method for the Determination of Manganese Content(GB/T 223.63-1988, neq ASTM E350: 1985)

GB/T 223.68 Methods for Chemical Analysis of Iron, Steel and Alloy; The Potassium Iodate Titration Method after Combustion in the Pipe Furnace for the Determination of Sulfur Content

GB/T 223.69 Iron steel and alloy-Determination of carbon contents-Gas-volumetric method after combustion in the pipe furnace

GB/T 228 Metallic Materials-Tensile Testing at Ambient Temperature (GB/T 228-2002, ISO 6892: 1998, EQV)

GB/T 231.1 Metallic Materials-Brinell Hardness Test-Part 1:Test Method (GB/T 231.1-2009, ISO 6506-1: 2005, MOD)

GB/T 1031 Geometrical product specifications(GPS)-Surface texture: Profile

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