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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 7659-2010

Replace GB/T 7659-1987

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**Steel casting suitable for welded structure**

**焊接结构用铸钢件**

**Issued on December 23, 2010**

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**Issued by General Administration of Quality Supervision, Inspection  
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**Standardization Administration of the People's Republic of  
China**

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## Foreword

This Standard is revision of GB/T 7659-1987 *Carbon steel castings suitable for welded structure*.

Comparison with GB/T 7659-1987, Main changes of technical contents in this Standard are as follows:

- Revision of Standard scope;
- Add of two designation, includes ZG300-500H and ZG340-550H;
- Revision of chemical composition of different designation in this Standard;
- Appropriate supplement for certification items of steel casting;
- Added the requirements for surface protection, packaging, transportation and storage of products.

Annex A of this Standard is normative annex.

This Standard is proposed by and under the jurisdiction of National Technical Committee 54 on Casting of Standardization Administration of China.

The responsible drafting organization is Beijing Electro-mechanical Research Institute High-tech Co., Ltd.

The participate drafting organizations are Casting Research Center of USTB, Henan Hongyu Special Castings Co., Ltd and Tangshan Kailuan Tietuo Heavy Machinery Manufacturing Co., Ltd.

The chief drafting staff of this standard includes Zhao Gang, Zhang Yahong, Wang Haixia, Chen Xudong, Dai Ping, Liu Ximin and Wang Yugang.

This standard replaces the following historical edition issued:

- GB/T 7659-1987.

# Steel casting suitable for welded structure

## 1 Scope

This Standard specifies the requirements for steel casting suitable for welded structure such as designation, technical requirements, test methods, inspection rules, labeling, packaging, transportation and storage, etc.

This Standard is applicable to steel casting (hereinafter referred to as casting) average project construction with well welding performance.

## 2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 222 Permissible tolerances for chemical composition of steel products

GB/T 223.4 Alloyed steel - Determination of manganese content - Potentiometer or visual titration method

GB/T 223.5 Steel and iron - Determination of acid-soluble silicon and total silicon content - Reduced molybdosilicate spectrophotometric method

GB/T 223.11 Iron steel and alloy - Determination of chromium content - Visual titration or potentiometric titration method

GB/T 223.13 Methods for chemical analysis of iron, steel and alloy—The ammonium ferrous sulfate titration method for the determination of vanadium content

GB/T 223.18 Methods for chemical analysis of iron, steel and alloy The sodium thiosulfate separation iodimetric method for the determination of copper content

GB/T 223.23 Iron steel and alloy - Determination of nickel content - The dimethylglyoxime spectrophotometric method

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