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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 706-2016

Replacing GB/T 706-2008

Hot rolled section steel

热轧型钢

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Foreword

This Standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 706-2008 “Hot rolled section steel”. Compared with GB/T 706-2008, main technical changes of this Standard are as follows:

- DELETE relevant contents of hot rolled L-shape section steels (see Table 3, Table 5 and Table A.5 of 2008 edition);
- ADD order contents (see Clause 3);
- ADJUST parts of dimension, shape and allowable deviation (see Table 1 and Table 2 of this Standard, Table 1 and Table 2 of 2008 edition);
- ADJUST the requirements for the allowable deviation of weight (see 4.4 of this Standard, 3.4 of 2008 edition);
- ADD the representing method for specification (see 4.5);
- ADJUST parameters of cross-sectional area, theoretical weight and cross-section characteristics (see Table A.1, Table A.2, Table A.3 and Table A.4).

This Standard is proposed by China Iron and Steel Industry Association.

This Standard is under the jurisdiction of National Technical Committee on Steel of Standardization Administration of China (SCA/TC 183).

Drafting organizations of this Standard: Magang (Group) Holdings Co., Ltd., Hebei Jinxi Iron and Steel Group Co., Ltd., Hebei Iron and Steel Group Tangshan Branch, Shandong Iron and Steel Group Lai Steel Branch, Anshan Baode Iron and Steel Co., Ltd., Rizhao Iron and Steel Holding Group Co., Ltd., Changshu Longteng Special Steel Co., Ltd., China Metallurgical Information and Standardization Institute.

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The previous version of the standard replaced by this Standard are as follows:

- GB/T 706-1965, GB/T 706-1988, GB/T 706-2008;
- GB/T 707-1965, GB/T 707-1988;
- GB/T 9787-1988;
- GB/T 9788-1988;
- GB/T 9946-1988.

Hot rolled section steel

1 Scope

This Standard specifies the order contents, dimension, shape, weight and allowable deviation, technical requirements, test methods, inspection rules, packaging, marking and quality certificate of hot rolled I-beam steels, hot rolled channel steels, hot rolled equal angle steels and hot rolled unequal angle steels.

This Standard applies to hot rolled equal angle steels, hot rolled unequal angle steels and hot rolled I-beam steels and hot rolled channel steels with a slope on the inside of the leg (hereinafter referred to as section steels).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the dated edition cited applies. For undated references, the latest edition of the referenced document (including all amendments) applies.

GB/T 228.1 Metallic materials - Tensile testing - Part 1: Method of test at room temperature

GB/T 229 Metallic materials - Charpy pendulum impact test method

GB/T 232 Metallic materials - Bend test

GB/T 700 Carbon structural steels

GB/T 1591 High strength low alloy structural steels

GB/T 2101 General requirement of acceptance, packaging, marking, and certification for section steel

GB/T 2975 Steel and steel products - Location and preparation of test pieces for mechanical testing

YB/T 4427 General requirements for surface condition of hot-rolled sections

3 Order contents

The contract ordered in accordance with this Standard shall contain the following technical contents:

- a) product name;
- b) standard number;
- c) grade;
- d) model, specification;
- e) delivery length;
- f) weight and quantity;
- g) other special requirements of the demand party.

4 Dimension, shape, weight and allowable deviation

4.1 Dimension and representing method

4.1.1 Schematic diagrams and marked symbols of cross-section of section steels are as shown in Figure 1 to Figure 4.

4.1.2 Parameters of cross-sectional dimension, cross-sectional area, theoretical weight and cross-section characteristics of section steels shall comply with the specifications of Tables A.1 to A.4 of Annex A.

4.2 Dimension, shape and allowable deviation

4.2.1 Dimension, shape and allowable deviation of section steels shall comply with the specifications of Table 1 to Table 2. According to the requirements of the demand party, dimension, shape and allowable deviation of section steels can also be specified in accordance with the agreement between supply and demand parties.