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GB/T 6725-2017

Replacing GB/T 6725-2008

General requirements of cold forming steel sections

冷弯型钢通用技术要求

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Foreword

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

This Standard replaces GB/T 6725-2008 *Cold forming steel sections*. Compared with GB/T 6725-2008, the main changes in this Standard are as follows:

- modified the standard's name;
- modified the strength level;
- modified the designation and composition requirements;
- modified the delivery state;
- modified the mechanical performance requirements;
- added the relevant requirements for plating.

This Standard was proposed by China Iron and Steel Association.

This Standard shall be under the jurisdiction of National Technical Committee on Steels of Standardization Administration of China (SAC/TC 183).

The drafting organizations of this Standard: Metallurgical Industry Information Standards Institute, Tianjin Youfa Steeltube Group Co., Ltd., Wuhan Iron and Steel Jiangbei Group Co., Ltd. Cold-forming Steel Co., Ltd., Tangshan Jinghua Pipe Co., Ltd., Shanxi Dingrong Cold-forming Steel Co., Ltd., Taian Taixing Metal Structure Manufacturing Co., Ltd.

Main drafters of this Standard: Liu Baoshi, Chen Zilin, Zhu Shaowen, Wen Zhaojiang, Yu Qingshui, Zhao Yong, Wang Yujie, Cao Jiyuan, Sheng Zhenjian, Liu Chunlei, Song Yi, Li Juncai, Yu Shubao, Song Yuguang.

Versions of standard substituted by this Standard are:

- GB/T 6725-1986, GB/T 6725-1992, GB/T 6725-2002, GB/T 6725-2008.

General requirements of cold forming steel sections

1 Scope

This Standard specifies the order content, classification and code, size, appearance, weight and allowable deviation, technical requirements, test methods, acceptance rules, packaging, marks and quality certificate.

This Standard is applicable to cold forming steel produced on continuous roll cold bending unit by cold-processed textured cold-rolled, hot-rolled or coated (plated) steel sheets and strips.

2 Normative references

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

GB/T 222, *Method of sampling steel for determination of chemical composition and permissible variations for product analysis*

GB/T 228.1, *Metallic materials - Tensile testing - Method of test at ambient temperature*

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

GB/T 699, *Quality carbon structural steels*

GB/T 700, *Carbon structural steels*

GB/T 714, *Structural steel for bridge*

GB/T 1591, *High strength low alloy structural steels*

GB/T 2101, *General provisions on acceptance, package, marking and quality certificate for profile steel*

GB/T 2518, *Continual hot-dip zinc-coated steel sheets and strips*

GB/T 2650, *Impact test methods on welded joints*

GB/T 2651, *Tensile test method on welded joints*

According to product cross-section shape, it usually uses Pinyin initial(s) that can represent the appearance characteristics of this product, in uppercase letters.

Examples:

Cold forming round hollow steel (round tube for short), Y (or φ) as its code.

Cold forming square hollow steel (square tube for short), F as its code.

Cold forming rectangular hollow steel (rectangular tube for short), J as its code.

Cold forming deformed hollow steel (deformed tube for short), YI as its code.

Cold forming open section steel (open section steel for short), according to the cross-section shape, is divided into JD (equal angle steel), JB (unequal angle steel), CD (equal channel steel), CB (unequal channel steel), CN (inside curling channel steel), CW (outside curling channel steel), Z (Z-shaped steel), ZJ (curling Z-shaped steel), YX (cold forming deformed steel).

4.2 Classification of cold forming steel according to yield strength level

It is usually divided into Q195, Q215, Q235, Q345, Q390, Q420, Q460, Q500, Q550, Q620, Q690, Q750, according to yield strength level.

5 Size, appearance, weight and allowable deviation

The size, appearance, weight and allowable deviation of cold forming steel shall comply with the requirements of GB/T 6723, GB/T 6726, GB/T 6728.

6 Technical requirements

6.1 Designation and chemical composition

6.1.1 The designation and chemical composition (smelting analysis) of cold forming steel shall comply with the requirements of GB/T 699, GB/T 700, GB/T 714, GB/T 1591, GB/T 2518, GB/T 3280, GB/T 3524, GB/T 4171, GB/T 12754, GB/T 33162.

6.1.2 Required by the purchaser and indicated in the contract, the cold forming steel of other designation shall be provided.

6.1.3 The allowable deviation of chemical composition of finished cold