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NATIONAL STANDARD OF THE PEOPLE'S

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GB/T 714-2008

Replace GB/T 714-2000

Structural Steel for Bridge

桥梁用结构钢

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Foreword

This Standard refers to EN 10025: 2004 *Hot rolled products of structural steels* and ASTM A709: 2005 *Standard Specification for Structural Steel for Bridges*, combined with production and application situation of bridge steels in China, to revise the GB/T 714-2000 *Structural Steel for Bridge*.

This Standard will replace GB/T 714-2000 *Structural Steel for Bridge*.

- Added the steel grade of Q460q, Q500q, Q550q, Q620q and Q690q;
- To revise the stipulation of chemical composition of steel, stricter the control of harmful elements such as P and S, etc;
- To revise the calculation formula of carbon equivalent;
- Added the stipulation on crack sensitivity coefficient;
- Added the requirements for external refining of steels;
- To revise the delivery state of steels;
- To revise the stipulation on steel thickness effects;
- To enhance the absorb impact energy value, cancel the stipulation on aging impact;
- Added the performance requirements of thickness direction of steel of various designations;
- To revise the inspection rules.

The Annex A of this Standard is informative annex.

This Standard is proposed by China Steel Industry Association.

This Standard is under the jurisdiction of National Technical Committee on Iron and Steel of Standardization Administration of China.

Main draft units of this Standard are Angang Steel Company Limited, China Metallurgical Information and Standardization Institute, Hunan Valin Xiangtan Iron and Steel Co., Ltd. (XISC), SGGF and HBIS Group.

Main drafters of this Standard are Liu Xuyuan, Piao Zhimin, Wang Xiaohu, Cao Zhiqiang, Shi Li, Lin Zhangguo, Hou Huaxing, Li Xiaoli.

History editions replaced by this Standard are as follows:

GB/T 714-1965, GB/T 714-2000.

Structural Steel for Bridge

1. Scope

This Standard specifies the presentation methods of designation, order information, dimension, shape, weight as well as permissible deviation, technical requirements, testing methods, inspection regulations, packing, marking and quality certificate of the structural steel for bridge.

This standard is applicable to structural steel plate and steel band, with a thickness not more than 100 mm, for bridge as well as structural fashioned steel, with a thickness not more than 40 mm, for bridge.

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 222 Method of sampling steel for determination of chemical component and permissible variations for product analysis

GB/T 223.5 Methods for chemical analysis of iron, steel and alloy The reduced molybdosilicate spectrophotometric method for the determination of acid-soluble silicon content

GB/T 223.9 Iron steel and alloy - Determination of aluminium content - Chrom azurol S photometric method

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 223.14 Methods for chemical analysis of iron, steel and alloy — The N-benzoyl-N-phenylhydroxylamine extraction photometric method for the determination of vanadium content

GB/T 223.16 Methods for chemical analysis of iron, steel and alloy — The chromotropic acid photometric method for the determination of titanium content

GB/T 223.19 Methods for chemical analysis of iron, steel and alloy—The neocuproine-chloroform extraction photometric method for the determination of copper content

GB/T 223.23 Methods for chemical analysis of iron, steel and alloy— The extraction separation-The dimethylglyoxime spectrophotometric method for the determination of nickel content

GB/T 223.26 Methods for chemical analysis of iron, steel and alloy - The thiocyanate direct photometric method for the determination of molybdenum content

GB/T 223.37 Methods for chemical analysis of iron, steel and alloy—The indophenol blue photometric methods for the determination of nitrogen content after distillation separation

GB/T 223.40 Methods for chemical analysis of iron, steel and alloy--The anion-exchange separation-sulphochlorophenol S photometric method for the determination of niobium content

GB/T 223.62 Methods for chemical analysis of iron, steel and alloy—The butyl acetate extraction photometric method for the determination of phosphorus 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 223.67 Methods for chemical analysis of iron, steel and alloy — The reducing



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