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National Standard of the People's Republic of China

GB/T 16270-2009

Replace GB/T 16270-1996

高强度结构用调质钢板

High Strength Structural Steel Plates in the Quenched and Tempered Condition

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Forward

This Standard refers to EN10025-6: 2004 *Quenched and tempered structural steel - Part 6: High yield strength structural steels in the quenched and tempered condition* and ISO 4950.3-2003 *High yield strength flat steel products -- Part 3: Products supplied in the heat-treated (quenched + tempered) condition*, and based on production technology of domestic iron & steel manufacturer, and formulated that GB/T 16270-1996 *High-strength structural steel plates: products supplied in the heat-treated or controlled rolled condition*.

This Standard will replace GB/T 16270-1996 *High-strength structural steel plates: products supplied in the heat-treated or controlled rolled condition*.

Comparison with GB/T 16270-1996, main changes of this Standard as follows:

- The title of standard changed as *High strength structural steel plates in the quenched and tempered condition*;
- Extended the application thickness scope from 100mm to 150mm, deleted the steel strips;
- Deleted the Q420, added the three designations of Q800, Q890 and Q960 and relevant technical requirements;
- Added the quality grade C (excluding Q460) and F, adjusted the composition and properties of designations;
- Cancelled the specified in bending property;
- Added the requirements of CEV and supplemented the articles from supplier and buyer;
- Deleted the delivery state such as normalized, normalized + tempered and controlled rolling, etc.

The annex A of this Standard is informative annex.

This Standard is proposed by Ministry of Metallurgical Industry;

This Standard is under jurisdiction of National Steel Standardization Technical Committee;

Main draft units of this Standard are Baoshan Iron & Steel Co., Ltd, China Metallurgical Information and Standardization Research Institute and LYSTEEEL Co., Ltd

Main drafters of this Standard are Wang Xiangru, Zhou Shenyu, Wang Xiaohu, Wen Dezhi and Zhou Jian.

Issuing conditions on all previous editions of this standard is:

- GB/T 16270-1996.

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High Strength Structural Steel Plates in the Quenched and Tempered Condition

1 Scope

This Standard specifies the designation, dimension, shape, weight of high strength structural steel plates in the quenched and tempered condition, as well as permissible deviation, technical requirements, test methods, inspection rules, packaging, marking and quality certificate, etc.

This Standard is applicable to high strength structural steel plates which the thickness not exceeds 150mm and delivered by quenched + tempered state.

2 Normative References

The clauses in the following documents have been quoted and become that of this standard. For any cited documents with dates, all the subsequent modifications (excluding corrections) or revised versions do not apply to this standard. However, parties having reached an agreement based on this standard are encouraged to study whether the latest versions of these documents are applicable. For cited documents without a date, their latest versions apply to this standard.

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

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

GB/T 223.9 Methods for chemical analysis of iron, steel and alloy The chrom azurol S photometric method for the determination of aluminium content

GB/T 223.11 Methods for chemical analysis of iron, steel and alloy--The ammonium persulfate oxidation volumetric 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 223.17 Methods for chemical analysis of iron, steel and alloy--The dianthipyryl methane 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 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 223.40 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 223.53 Methods for chemical analysis of iron, steel and alloy -- The flame atomic

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