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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 712-2000

Hull Structural Steel

船体用结构钢

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of the People's Republic of China**

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Forward

This Standard is equivalent to use the newest unified requirements of IACS, and equivalent to the *Rules for Materials and Welding* (1998) of China Classification Society (CCS), consistent to ship regulations of various countries

Main changes in comparison with original Standard:

- The specification scope of steel plate thickness from 50mm to 100mm.
- The negative deviation of steel plate thickness changed into 0.3mm.
- Added Grade A40, D40, E40 and F40 for high strength steel.
- Added Grade F for quality grade, the temperature of impact test is -60℃
- The content of sulfur and phosphorus in steels which decreased to no more than 0.035% (which the Grade F is no more than 0.025%)
- Added delivery state of TMCP (Thermo-Mechanical Controlled Processing),
- Stipulates the different impact test sampling batch according to different quality grade, thickness and delivery state

This Standard replaced of GB 712-1988 *Hull Structural Steel* since the date of issued.

This Standard is proposed by Chinese Metallurgical Industry Bureau;

This Standard is governed by China Steel Standardization Technical Committee;

Main draft units of this Standard are China Metallurgical Information and Standardization Research Institute, China Shipping Registering Bureau and Wuhan Iron & Steel Co., Ltd

Main drafters of this Standard are Tang Yifan, Zhang Jieping, Ke Shixuan, Zhao Jie and Deng Lianxian.

This Standard first issued on 1965, first amendment on July 1979, secondary amendment on Sep. 1988

Hull Structural Steel

1 Scope

This Standard specifies the dimension, shape, technical requirement, test method, inspection rules, packaging, labeling and quality of certificate for hull structural steel.

This Standard is applicable to the normal strength and high strength steel which hull structural steel for ocean shipping, coastal and inland navigation area, including the steel plate which thickness no more than 100mm and the section steel which thickness or diameter no more than 50mm.

Hull structural steel (ingot, billet and product) is produced by steel plants which approved by China Shipping Registering Bureau or China Classification Society (CCS)

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 222-1984 Method of Sampling Steel for Determination of Chemical Composition and Permissible Variations for Product Analysis

GB 223.3-1988 Methods for chemical analysis of iron, steel and alloy--The diantipyryl methane phosphomolybdate gravimetric method for the determination of phosphorus content

GB 223.4-1988 Methods for chemical analysis of iron, steel and alloy-- The volumetric method for determination of manganese content by ammonium nitrate oxidation

GB 223.11-1991 Methods for chemical analysis of iron, steel and alloy--The ammonium persulfate oxidation volumetric method for the determination of chromium content

GB 223.14-1989 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 223.16-1991 Methods for chemical analysis of iron, steel and alloy--The chromotropic acid photometric method for the determination of titanium content

GB 223.17-1989 Methods for chemical analysis of iron, steel and alloy - The diantipyrylmethane photometric method for the determination of titanium content

GB/T 223.18-1994 Methods for chemical analysis of iron, steel and alloy - The sodium thiosulfate separation iodimetric method for the determination of copper content

GB 223.19-1989 Methods for chemical analysis of iron, steel and alloy - The neocuproine-chloroform extraction photometric method for the determination of copper content

GB/T 223.23-1994 Methods for chemical analysis of iron, steel and alloy - The dimethylglyoxime spectrophotometric method for the determination of nickel content

GB/T 223.24-1994 Methods for chemical analysis of iron, steel and alloy - The extraction separation--the dimethylglyoxime spectrophotometric method for the determination of nickel content

GB 223.26-1989 Methods for chemical analysis of iron, steel and alloy - The thiocyanate direct photometric method for the determination of molybdenum content

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