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NATIONAL STANDARD OF
THE PEOPLE'S REPUBLIC OF CHINA

GB/T 701-2008

Replacing GB/T 701-1997

Hot Rolled Low Carbon Steel Wire Rods

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Issued on: August 5, 2008

Implemented on: April 1, 2009

**Jointly Issued by: General Administration of Quality Supervision,
Inspection and Quarantine (AQSIQ);
Standardization Administration (SAC) of the People's
Republic of China.**

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Foreword

This Standard modifies and adopts JIS G 3505:2004 "Low carbon steel wire rods" (English edition).

The standard is redrafted according to JIS G 3505:2004. Compared with JIS G 3505:2004, the main technical differences of this Standard are as follows:

- Due to different designation, the designation of iron and steel in China is adopted. And the requirements in composition of some elements are adjusted;
- The requirements on the cold bending performance arrangement are added;
- The requirements on value rounding are added.

This Standard replaces GB/T 701-1997 "Hot rolled low carbon steel wire rods". Compared with GB/T 701-1997, the main technical differences are as follows:

- The wire rods for building are deleted from the scope of application. And the scope of application is revised as "low-carbon steel hot-rolled wire rods for deep processing and other general purpose";
- The chapter "order content" is added;
- The steel grades are deleted. They are unified as Q195, Q215 and Q235. Designation Q275 is added;
- The requirements in sulfur and phosphorus contents of the steel are revised;
- The tensile strength and elongation after fracture of steels are revised;
- The clause "surface quality" is revised;
- The clause "test rules" is revised. And the requirements on the mixed group of different furnace numbers are deleted;
- The clause "smelting process" is revised. And the open-hearth furnace smelting is deleted;
- The requirements on value rounding are added.

This Standard was proposed by China Iron & Steel Association.

This standard shall be under the jurisdiction of the State Technical Committee for Standardization of Steel.

Drafting organizations of this Standard: Maanshan Iron & Steel Co., Ltd., Jiangsu Yonggang Group Co., Ltd., Qingdao Iron and Steel Group Co., Ltd., Shougang Group Co., Ltd., Anyang Iron and Steel Group Company Co. Ltd., Xuanhua Iron and Steel Group Co., Ltd., Shandong Shiheng Special Steel Group Co., Ltd., and China Metallurgical Information and Standardization Research Institute.

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Hot Rolled Low Carbon Steel Wire Rods

1 Scope

This Standard specifies order content, dimension and shape, weight and allowable deviation, technical requirements, test methods, test rules and packing, marking and quality certificate of hot-rolled low-carbon steel wire rods.

This Standard is applicable to low-carbon steel hot-rolled wire rods for deep processing and other general purpose.

This Standard is not applicable to the following products:

- hot-rolled carbon bar steel for standard part;
- steel wire rods for welding;
- cold heading steel;
- free-cutting structural steels;
- bar steel for anchor chain.

2 Normative References

The following normative documents contain provisions which, through reference in this text, constitute provisions of this Standard. For dated reference, the subsequent amendments (excluding correction) or revisions of these publications do not apply. However, the parties whose enter into agreement according to these specifications are encouraged to research whether the latest editions of these editions are applicable. For undated references, the latest edition of the normative document referred to applies.

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

GB/T 223.3 Methods for chemical analysis of iron, steel and alloy - The diantipyrylmethane phosphomolybdate gravimetric method for the determination of phosphorus content

GB/T 223.5 Steel and iron - Determination of acid-soluble silicon and total silicon content - Reduced molybdosilicate spectrophotometric method (GB/T 223.5-1997, NEQ ISO 4829-1:1986, ISO 4829-2: 1988)

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 223.19 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 223.23-1994,

MOD ISO 4939: 1984)

GB/T 223.59 Methods for chemical analysis of iron, steel and alloy - The reduced molybdoantimonyl phosphoric acid photometric method for the determination of phosphorus content

GB/T 223.60 Methods for chemical analysis of iron, steel and alloy - the perchloric acid dehydration gravimetric method for the determination of silicon content (GB/T 223.60-1997, MOD ISO 439: 1994)

GB/T 223.61 Methods for chemical analysis of iron, steel and alloy - The ammonium phosphomolybdate volumetric method for the determination of phosphorus 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 223.63-1988, MOD ISO 629: 1982)

GB/T 223.64 Methods for chemical analysis of iron, steel and alloy - The flame atomic absorption spectrometric method for the determination of manganese content (GB/T 223.64 1988, MOD ISO 10700:1984)

GB/T 223.68 Methods for chemical analysis of iron, steel and alloy - The potassium iodate titration method after combustion in the pipe furnace for the determination of sulfur content (GB/T 223.68-1997, MOD ISO 671: 1982)

GB/T 223.69 Methods for chemical analysis of iron, steel and alloy - The gas-volumetric method after combustion in the pipe furnace for the determination of carbon content

GB/T 223.71 Methods for chemical analysis of iron, steel and alloy - The gravimetric method after combustion in the pipe furnace for the determination of carbon content (GB/T 223.71-1997, MOD ISO 437: 1982)

GB/T 223.72 Methods for chemical analysis of iron, steel and alloy - The alumina chromatographic separation-barium sulfate gravimetric method for the determination of sulphur content

GB/T 228 Metallic materials - Tensile testing at ambient temperature (GB/T 228-2002, eqv ISO 6892: 1998 (E))

GB/T 232 Metallic materials - Bend test (GB/T 232-1999, eqv ISO 7438: 1985 (E)) GB/T 700 Carbon Structural Steels

GB/T 2101 General requirements 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 (GB/T 2975-1998, eqv ISO 377: 1997)

GB/T 4336 Standard test method for spark discharge atomic emission spectrometric analysis of carbon and low-alloy steel (routine method)

GB/T 14981 Dimensions, shape, mass and tolerances for hot-rolled wire rods

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