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**Hot-rolled wire rod for quenched
and tempered spring steel wires**

淬火-回火弹簧钢丝用热轧盘条

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Hot-rolled wire rod for quenched and tempered spring steel wires

1 Scope

This Standard specifies the order content, size, shape, weight and allowable deviation, technical requirements, test methods, inspection rules, packaging, marks, and quality certificate of hot-rolled wire rod for quenched and tempered spring steel wires.

This Standard is applicable to the hot-rolled wire rod for quenched and tempered spring steel wires (hereinafter referred to as the wire rod).

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, *Permissible Tolerances for Chemical Composition of Steel Products*

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 223.11, *Iron, Steel and Alloy - Determination of Chromium Content - Visual Titration or Potentiometric Titration Method*

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

GB/T 223.54, *Methods for chemical analysis of iron, steel and alloy - The flame atomic absorption spectrophotometric method for the determination of nickel 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 223.62, *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 223.64, *Iron, Steel and Alloy - Determination of Manganese Content - Flame Atomic Absorption Spectrometric Method*

GB/T 223.72, *Iron, Steel and Alloy - Determination of Sulfur Content - Gravimetric Method*

GB/T 224, *Determination of depth of decarburization of steel*

GB/T 226, *Classification and codes of basic personal information*

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

GB/T 1979, *STANDARD diagrams for macrostructure and defect of 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 4336, *Carbon and low-alloy steel - Determination of multi-element contents - Spark discharge atomic emission spectrometric method (routine method)*

GB/T 6394, *Metal - Methods for estimating the average grain size*

GB/T 8170, *Rules of rounding off for numerical values & expression and judgement of limiting values*

GB/T 10561, *Steel - Determination of Content of Nonmetallic Inclusions - Micrographic Method Using Standards Diagrams*

GB/T 11261, *Steel and Iron-Determination of oxygen content - The pulse heating inert gas fusion-infra-red absorption method*

7 Inspection rules

7.1 Inspection and acceptance

The inspection and acceptance of the wire rod shall be performed by the quality and technical supervision department of the supplier. When necessary, the purchaser has the right to conduct inspection and acceptance in accordance with the provisions of this Standard.

7.2 Batching rules

The wire rod shall be accepted in batches. Each batch shall consist of the wire rod of the same furnace number, the same designation, the same specification.

7.3 Re-inspection

The re-inspection and determination rules of the wire rod shall be performed according to GB/T 2101.

7.4 Numerical rounding

The inspection and inspection data of the wire rod shall be rounded off by comparison method of rounding off values. The rounding off rules shall be in accordance with GB/T 8170.

8 Packaging, marks, and quality certificate

8.1 The packaging, marks, and quality certificate of the wire rod shall comply with GB/T 2101.

8.2 Negotiated with the supplier and the purchaser, and indicated in the contract, it may also adopt other particular packaging, protective requirements.

_____ **END** _____

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