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Stainless steel wire rods

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Stainless steel wire rods

1 Scope

This Standard specifies the order content, size, shape and weight, technical requirements, test method, inspection rules, packaging, marks and quality certificate of stainless steel wire rods.

This Standard is applicable to stainless steel wire rods but not welding wire rods.

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 223.4, *Alloyed steel - Determination of manganese content - Potentiometric or visual titration method*

GB/T 223.8, *Methods for chemical analysis of iron, steel and alloy - The sodium fluoride separation - EDTA titration method for the determination of aluminium content*

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

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 223.18, *Methods for Chemical Analysis of Iron, Steel and Alloy - The Sodium Thiosulfate Separation Iodimetric Method for the Determination of Copper Content*

GB/T 223.23, *Iron, Steel and Alloy-Determination of Nickel Content - The Dimethylglyoxime Spectrophotometric Method*

GB/T 223.25, *Methods for chemical analysis of iron, steel and alloy. The dimethylglyoxime gravimetric method for the determination of nickel content*

GB/T 223.26, *Iron, Steel and Alloy - Determination of Molybdenum Content - The Thiocyanate Spectrophotometric Method*

GB/T 223.28, *Methods for chemical analysis of iron，steel and alloy - The α-benzoinoxime gravimetric method for the determination of molybdenum content*

GB/T 223.36, *Methods for chemical analysis of iron, steel and alloy - The neutral titration method for the determination of nitrogen content after distillation separation*

GB/T 223.40, Iron, *Steel and Alloy - Determination of Niobium Content by the Sulphochlorophenol S Spectrophotometric Method*

GB/T 223.43, *Iron steel and alloy - Determination of tungsten content - Gravimetric method and spectrophotometric method*

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 223.61, *Methods for chemical analysis of iron, steel and alloy; The ammonium phosphomolybdate volumetric method for the determination of phosphorus 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 223.76, *Methods for chemical analysis of iron, steel and alloy - The flame atomic absorption spectrometric method for the determination of vanadium content*

GB/T 223.86, *Steel and iron - Determination of total carbon content - Infrared absorption method after combustion in an induction furnace*

GB/T 226, *Test method for macrostructure and defect of steel by etching*

GB/T 228.1, *Metallic materials - Tensile testing - Part 1: Method of test at room temperature*

GB/T 231.1, *Metallic materials - Brinell hardness test - Part 1: Test method*

GB/T 1979, *Standard diagrams for macrostructure and defect of structural steels*

4 Size, shape and weight

4.1 The nominal diameter range of wire rods is: 4.5mm~40.0mm.

4.2 The allowable diameter deviation and out-of-roundness of wire rods shall comply with the provisions of GB/T 14981-2009 (when the diameter is 4.5mm, it shall be in accordance with the provisions for 5mm) and the accuracy is in accordance with level B. Agreed by the supplier and the purchaser and indicated in the contract, delivery may be in accordance with the accuracy for other levels.

4.3 Weight of wire rods

4.3.1 Each coil of wire rods consists of one piece. The weight of wire rods shall not be less than 1000kg. The following cases allow delivery but the total quantity of wire rods shall not exceed 5% of the number of coils per batch (when it is less than 2 coils, it is allowed to have 2 coils).

a) The wire rods that consist of one piece and the weight is less than 1000kg but greater than 800kg;

b) The wire rods that consist of two pieces but the coil weight is not less than 1000kg, the weight of each wire rod is not less than 300kg and there is an obvious identifier.

4.3.2 As required by the purchaser and agreed by both parties, the wire rods with other special coil weight requirements can be provided.

5 Technical requirements

5.1 Designation and chemical composition

5.1.1 The designation and chemical composition (melting analysis) of steel shall comply with the provisions of Table 1 ~ Table 5. As required by the purchaser and agreed by both parties, wire rods of other designations and chemical composition requirements can be provided. See Annex A for the control on designations between this Standard and original standard. See Annex B for the main usage of designations specified in this Standard. See Annex C for the control between designations of this Standard and some foreign designations.

5.1.2 The allowable deviation of chemical composition of finished wire rods shall comply with the provisions of GB/T 222. Only when it is required by the purchaser and indicated in the contract, the manufacturer shall carry out the analysis on chemical composition of finished products. Report the analysis results of finished products in the quality certificate.

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