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GB/T 24238-2017

Replacing GB/T 24238-2009

Hot-Rolled Wire Rod for Prestressed Steel Wire and Strand

预应力钢丝及钢绞线用热轧盘条

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Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard replaced GB/T 24238-2009 *Hot Rolled Wire Rod for Prestressed Steel Wire and Strand*; compared with GB/T 24238-2009, this Standard has the major technical changes as follows besides the editorial modification:

- Expand the specification range of wire rod;
- Cancel four grades of YL72A, YL77A, YL82A, YL87A;
- Elaborate the sorbate content of each grade;
- Confirm allowable level requirements for mesh cementite and center martensite;
- Modify the mechanical properties;
- Enhance the requirements for decarburization depth.

This Standard was proposed by China Iron and Steel Industry Association.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Steel (SAC/TC 183).

Drafting organizations of this Standard: Angang Steel Company Limited, Jiangsu Shagang Group Co., Ltd., Jiangsu Yonggang Group Co., Ltd., Tianjin Iron & Steel Group Co., Ltd., Zenith Steel Group Co., Ltd., Qingdao Special Iron and Steel Co., Ltd., Tianjin Silvery Dragon Prestressed Materials Co., Ltd., Baosteel Group Nantong Wire Products Co., Ltd., and China Metallurgical Information and Standardization Institute.

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The historical edition replaced by this Standard is as follows:

- GB/T 24238-2009.

Hot-Rolled Wire Rod for Prestressed Steel Wire and Strand

1 Scope

This Standard specifies the grade, ordering content, dimension, shape, weight and permissible deviation, technical requirements, test methods, inspection rules, package, marking and quality certificate of wire rod for prestressed steel wire and strand.

This Standard is applicable to the hot-rolled wire rod for prestressed steel wire and strand (hereinafter referred to as wire rod).

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

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 223.12 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 223.14 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 223.23 Methods for Chemical Analysis of Iron, Steel and Alloy - The Dimethylglyoxime Spectrophotometric Method for the Determination of Nickel Content

GB/T 223.59 Iron, Steel and Alloy - Determination of Phosphorus Content - Bismuth Phosphomolybdate Blue Spectrophotometric Method and Antimony Phosphomolybdate Blue Spectrophotometric Method

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 223.67 Iron, Steel and Alloy - Determination of Sulfur Content - Methylene Blue Spectrophotometric Method

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 223.72 Iron, Steel and Alloy - Determination of Sulfur Content - Gravimetric Method

GB/T 224 Determination of Depth of Decarburization of Steels

GB/T 228.1 Metallic Materials - Tensile Testing - Part 1: Method of Test at Room Temperature

GB/T 2101 General Provisions on Acceptance, Package, Marking and Quality Certificate for Profile Steel

GB/T 2975 Steel and Steel Products – Location and Preparation of Test Pieces for Mechanical Testing

GB/T 4336 Standard Test Method for Spark Discharge Atomic Emission Spectrometric Analysis of Carbon and Low-Alloy Steel (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 13298 Inspection Methods of Microstructure for Metals

GB/T 14981-2009 Dimension Shape Mass and Tolerance for Hot-Rolled Round Wire Rod

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