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Steels for Diamond Welded Saw Blades

金刚石焊接锯片基体用钢

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Steels for Diamond Welded Saw Blades

1 Scope

This document specifies the order content, dimensions, shape, weight, technical requirements, test methods, inspection rules, packaging, marking and quality certificate of steels for diamond welded saw blades.

This document is applicable to hot-rolled and cold-rolled steel plates and strips used for diamond welded saw blades with a thickness not greater than 15 mm.

2 Normative References

The contents of the following documents constitute indispensable clauses of this document through the normative references in the text. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 222 Permissible Tolerances for Chemical Composition of Steel Products

GB/T 223.5 Steel and Iron - Determination of Acid-soluble Silicon and Total Silicon Content - Reduced Molybdosilicate Spectrophotometric Method

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 223.18 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 223.26 Iron, Steel and Alloy - Determination of Molybdenum Content - The Thiocyanate Spectrophotometric Method

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 223.63 Iron, Steel and Alloy - Determination of Manganese Content - Sodium (potassium) Periodate Spectrophotometric Method

- 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 223.69 Iron, Steel and Alloy - Determination of Carbon Contents - Gas-volumetric Method after Combustion in the Pipe Furnace
- GB/T 223.79 Iron and Steel - Determination of Multi-element Contents - X-ray Fluorescence Spectrometry (routine 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 230.1 Metallic Materials - Rockwell Hardness Test - Part 1: Test Method
- GB/T 231.1 Metallic Materials - Brinell Hardness Test - Part 1: Test Method
- GB/T 247 General Rule of Acceptance, Package, Mark and Certification for Steel Plates (sheets) and Strips
- GB/T 708-2019 Dimension, Shape, Weight and Tolerance for Cold-rolled Steel Strip and Sheet
- GB/T 709-2019 Dimension, Shape, Weight and Tolerance for Hot-rolled Steel Strip, Plate and Sheet
- GB/T 2975 Steel and Steel Products - Location and Preparation of Samples and Test Pieces for Mechanical Testing
- GB/T 4336 Standard Test Method for Spark Discharge Atomic Emission Spectrometric Analysis of Carbon and Low-alloy Steel
- GB/T 6394 Determination of Estimating the Average Grain Size of Metal
- GB/T 10561 Steel - Determination of Content of Nonmetallic Inclusions - Micrographic Method Using Standards Diagrams
- GB/T 17505 Steel and Steel Products - General Technical Delivery Requirements
- GB/T 20066 Steel and Iron - Sampling and Preparation of Samples for the Determination of Chemical Composition
- GB/T 20123 Steel and Iron - Determination of Total Carbon and Sulfur Content Infrared Absorption Method after Combustion in an Induction Furnace (routine method)
- GB/T 34474.1-2017 Determination of Banded Structure of Steel - Part 1: Micrographic Method Using Standards Diagrams

3 Terms and Definitions

This document does not have terms and definitions that need to be defined.

4 Order Content

The contract for ordering in accordance with this document shall include the following contents:

- a) Serial No. of this document;
- b) Designation;
- c) Dimensions, shape and accuracy level;
- d) Weight;
- e) Delivery status;
- f) Banded structure, grain size and other special requirements (if necessary).

5 Dimensions, Shape and Weight

5.1 The dimensions, shape, weight and allowable deviations of hot-rolled steel plates or steel strips shall comply with the stipulations of GB/T 709-2019; the allowable deviation of thickness shall comply with the stipulations of Table 4 in GB/T 709-2019; the unevenness shall comply with the stipulation in Table 11 of GB/T 709-2019 that the minimum yield strength is greater than 300 MPa.

5.2 The dimensions, shape, weight and allowable deviations of cold-rolled steel plates or steel strips shall comply with the stipulations of GB/T 708-2019; the allowable deviation of thickness shall comply with the stipulations of Table 5 in GB/T 708-2019; the unevenness shall be determined through negotiation between the supply-side and the demand-side.

6 Technical Requirements

6.1 Chemical Composition

6.1.1 The designation, unified digital code and chemical composition (smelting analysis) of the steel shall comply with the stipulations of Table 1.

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Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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