Q/BB

ENTERPRISE STANDARD OF BENXI STEEL PLATE CO., LTD.

Q/BB 305-2021

Replacing Q/BB 305-2019

Cold-rolled low-carbon steel sheet and strip

冷轧低碳薄钢板和钢带

(EN 10130, ASTM A1008/A1008M, NEQ)

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Cold-rolled low-carbon steel sheet and strip

1 Scope

This document specifies the terms and definitions, classification and code, order content, dimensions, shape, weight, technical requirements, test methods, inspection rules, numerical rounding rules, packaging, marking, quality certificate (or inspection document) of cold-rolled low-carbon steel sheets and strips (or inspection document).

This document applies to cold-rolled low-carbon steel sheets and strips (hereinafter referred to as steel sheets and strips), which are produced by Benxi Steel.

2 Normative references

The contents of the following documents constitute essential provisions of this document, through normative references in the text. Among them, for dated references, only the version corresponding to the date applies to this document; for undated references, the latest version (including all amendments) is applicable to this document.

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

GB/T 223 Methods for chemical analysis of iron, steel and alloy (Applicable part)

GB/T 228.1 Tensile test of metallic materials - Part 1: Tensile test method at room temperature

GB/T 2523 Measuring method of surface roughness and peak count for cold-rolled metal sheet (strip)

GB/T 2975 Steel and steel products - Location and preparation of samples and 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 5027 Metallic materials - Sheet and strip - Determination of plastic strain ratio

GB/T 5028 Metallic materials - Sheet and strip - Determination of tensile strain hardening exponent

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

9.4 Reinspection and judgment rules

9.4.1 The determination of steel sheets and strips shall comply with the provisions of GB/T 17505.

9.4.2 If the steel sheet and steel strip are unqualified in the initial inspection, it shall randomly take double quantity of specimens from the same batch, for re-inspection of the unqualified item. If the re-inspection results (including all the indicators required by the item test) are qualified, the whole batch is qualified. The re-inspection results (including all the indicators required by the item test) are unqualified, even if one of the indicators fails the re-inspection. If the re-inspection fails, the single piece, that has been tested and the test results are inconsistent, cannot be accepted; however, the single piece of the batch of materials, that has not been tested, can be resubmitted for test and acceptance, one by one.

10 Numerical rounding rules

The test results of chemical composition and mechanical properties shall be rounded, according to the rounding value comparison method. The rounding rules shall be in accordance with the provisions of GB/T 8170.

11 Packaging, marking, quality certificate (or inspection document)

11.1 The packaging, marking, quality certificate of steel sheets and strips shall comply with the requirements of Q/BB 300. If the buyer has special requirements for packaging, it can be negotiated when ordering.

11.2 Under normal circumstances, the supplier only provides the quality certificate of the supplied products.

11.3 If the buyer requires inspection documents, the supplier shall provide the statement "Type 2.1" of compliance with the order, or the inspection report "Type 2.2", or the inspection certificate "Type 3.1", in accordance with the provisions of GB/T 18253-2018; OR provide inspection documents, in accordance with EN 10204 (see Appendix D).

11.4 When the buyer has special requirements for the type of quality certificate or inspection document, it can be negotiated when ordering AND indicated in the contract or order.

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