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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 40383-2021

**Hot-rolled twin-roll cast carbon steel sheet and strip of
commercial quality**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document uses the redrafting method to modify and adopt ISO 15177.2012 "Commercial Grade Hot-rolled Two-roll Cast-rolled Carbon Steel Sheet".

Compared with ISO 15177.2012, this document has technical differences.

The set vertical single line (|) is marked, and a list of technical differences and their reasons is given in Appendix A for reference.

This document has made the following editorial changes.

---Modify the standard name from "Commercial-grade hot-rolled twin-roll cast-rolled carbon steel sheet" to "Commercial-grade twin-roll cast-rolled hot-rolled carbon steel sheet and "Steel Belt", the name of the standard was changed in order to be consistent with my country's standard system.

---Informative Appendix B has been added, which provides the process of the twin-roll casting and rolling process.

1 Scope

This document specifies the characteristics of commercial-grade hot-rolled carbon steel sheets and strips produced by the twin-roll casting-rolling process. See the twin-roll casting-rolling process

Appendix B. Two-roll cast-rolling hot-rolled carbon steel sheet and steel strip are suitable for many applications. In these applications, there may be oxides,

Iron oxide scale, or normal surface defects found after removing oxide or iron oxide scale. This product is not suitable for high requirements on surface quality

Application.

This document is applicable to commercial-grade hot-rolled carbon steel sheets and strips produced by the twin-roll casting-rolling process.

Commercial-grade twin-roll cast-rolled hot-rolled carbon steel sheets and strips are used for general manufacturing purposes. Usually used as flat material, for bending, moderate Forming and welding operations.

Note. This document does not include the subsequent re-rolling of thin steel plates and steel strips.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations

Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

This document.

GB/T 223.12 Methods for chemical analysis of iron, steel and alloy. The sodium carbonate separation-diphenylcarbazine photometric method for the determination of chromium content

GB/T 223.14 Methods for chemical analysis of iron, steel and alloy-The tantalum reagent extraction spectrophotometric method for the determination of vanadium content

GB/T 223.18 Methods for chemical analysis of iron, steel and alloy. The sodium thiosulfate separation-iodometric method for the determination of copper content

GB/T 223.23 Iron, steel and alloy-Determination of nickel content-Dimethylglyoxime spectrophotometric method

GB/T 223.26 Steel and alloy determination of molybdenum content-Thiocyanate spectrophotometric method

GB/T 223.40 Steel and alloy determination of niobium content-Chlorosulfonol S 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 223.62 Methods for chemical analysis of iron, steel and alloy-The butyl acetate extraction spectrophotometric 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 223.69 Steel and alloy carbon content determination after combustion in tube furnace

gas volume method

GB/T 223.72 Determination of Sulfur Content in Iron and Steel and Alloy Gravimetric Method

GB/T 223.84 Iron, Steel and Alloy Determination of Titanium Content Diantipyrine Methane Spectrophotometric Method

GB/T 228.1 Tensile test of metallic materials Part 1. Room temperature test method (GB/T 228.1-2010, ISO 6892-1.

2009, MOD)

GB/T 247 General Provisions for Packaging, Marking and Quality Certificates of Steel Plates and Strips

GB/T 709 Hot-rolled steel plate and steel strip size, shape, weight and allowable deviation

GB/T 2975 Steel and steel product mechanical performance test sampling location and sample preparation

GB/T 4336 Carbon steel and low- and medium-alloy steel determination of multi-element content Spark discharge atomic emission spectrometry (conventional method)

GB/T 8170 Numerical rounding rules and the expression and determination of limit values

GB/T 17505 General technical requirements for delivery of steel and steel products

GB/T 20066 Sampling and sample preparation methods for the determination of the chemical composition of steel and iron