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

GB/T 31938-2026

Replacing GB/T 31938-2015

Steel plate, sheet and strip for ore and slurry pipelines

矿粉矿浆输送管用钢板和钢带

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document supersedes GB/T 31938-2015 "Steel Plates for Coal Slurry Conveying Pipes" and GB/T 33971-2017 "Hot-rolled Wide Steel Plates for Coal Slurry Conveying Pipes". This document, "Steel Strip," is based on GB/T 31938-2015 and incorporates content from GB/T 33971-2017. In comparison, aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) A new method for representing trademarks has been added (see Chapter 4);
- b) The chemical composition and carbon equivalent requirements have been changed (see 7.1, 7.2, and 6.1 of GB/T 31938-2015);
- c) The yield strength ratio requirement has been changed (see Table 3, Table 3 of GB/T 31938-2015);
- d) The test requirements for Charpy impact performance have been changed (see 7.3.2, 6.4 of GB/T 31938-2015);
- e) The requirement for a drop weight test has been added (see 7.3.3);
- f) The hardness test requirements have been changed (see 7.3.4, 6.5 of GB/T 31938-2015);
- g) Added provisions for DS-type inclusions (see 7.7). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Iron and Steel Association. This document is under the jurisdiction of the National Steel Standardization Technical Committee (SAC/TC183). This document was drafted by: Jiangsu Shagang Steel Co., Ltd., Wuhan Iron and Steel Co., Ltd., Shougang Group Qian'an Steel

Co., Ltd., and Hunan Huagang Steel Co., Ltd. Lingxiangtan Iron & Steel Co., Ltd., Metallurgical Industry Information and Standardization Research Institute, Hebei Puyang Iron & Steel Co., Ltd., Steel Research Nake Testing Technology Co., Ltd. company. The main drafters of this document are. Lin Taozhu, Nie Wenjin, Li Liwei, Zhang Caixia, Jia Jin, Tian Zijian, Guo Longxin, Qu Jinbo, and Wei Haili. Kang Xiaomin, Peng Qing, Sun Menghan, Shi Xianying, Li Xiaobo, Li Qian, Huang Jiugui. The release history of this document and the document it replaces is as follows:

---GB/T 31938, first published in.2015;

---GB/T 33971, first published in.2017;

1 Scope

GB/T 31938-2026 is the Chinese national standard covering the steel of a slurry pipeline - a line carrying abrasive ore concentrate over long distances, where the requirement is wear resistance and toughness together with the weldability a pipeline needs. It replaces GB/T 31938-2015 and takes effect on 1 December 2026. It was issued on 25 May 2026 and takes effect on 1 December 2026, replacing GB/T 31938-2015. The document is under the responsibility of the China Iron and Steel Association. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 223 (all parts) Chemical Analysis Methods for Iron and Steel and Alloys

GB/T 228.1 Metallic materials - Tensile testing - Part

GB/T 6394 Method for Determination of Average Grain Size of Metals

GB/T 8170 Rules for rounding off numerical values and the representation and determination of limiting values

GB/T 8363 Steel drop hammer tear test method

GB/T 10561-2023 Standard rating chart microscopic examination method for the determination of non-metallic inclusion content in steel

GB/T 13298 Examination Methods for Metallic Microstructure

GB/T 14977 General requirements for surface quality of hot-rolled steel plates

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 Chemical Composition of Steel and Iron

GB/T 20123 Determination of Total Carbon and Sulfur Content in Iron and Steel - Infrared Absorption Method After Combustion in a High-Frequency Induction Furnace (Conventional Method)

GB/T 20125 Determination of multiple elements in low-alloy steel by inductively coupled plasma atomic emission spectrometry

GB/T 34474 Evaluation Method for Banded Structure in Steel YB/T 6177 Slurry Erosion Method for Wear Testing of Metallic Materials

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.