

ICS 77-010
CCS H 04



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

GB/T 47106-2026

**Guideline for the reuse of unconventional water sources in the
iron and steel industry**

钢铁工业非常规水资源回收利用指南

Issued on: January 28, 2026

Implemented on: August 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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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. 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: Shandong Iron and Steel Group Rizhao Co., Ltd., Rizhao Iron and Steel Holding Group Co., Ltd., and China Metallurgical Southern Engineering Technology Co., Ltd. Limited Company, Metallurgical Industry Information and Standardization Research Institute, Ansteel Group Engineering Technology Co., Ltd., MCC Eco-Environmental Protection Group Co., Ltd., MCC Jingcheng Engineering Technology Co., Ltd., Ausco Membrane Technology (Tianjin) Co., Ltd., China South-to-North Water Diversion Group Ecological and Environmental Protection Co., Ltd., Beijing Guolong Environmental Protection Co., Ltd. Bao Technology Co., Ltd., Dezhou Fulande Filter Co., Ltd., Ganjiang Innovation Research Institute of Chinese Academy of Sciences, Hunan Aowei Technology Co., Ltd. Company, Suzhou Surui Membrane Nanotechnology Co., Ltd., Beijing Shougang International Engineering Technology Co., Ltd., Shanghai Kaixin Separation Technology Co., Ltd. Suzhou Puxi Environmental Protection Technology Co., Ltd., Zhongfuxin Water Source Technology Co., Ltd., and Shaanxi Dingche Membrane Technology Co., Ltd. The main drafters of this document are. Zhang Yuyu, Sui Mingming, Zhang Ruopeng, Xu Xianpeng, Ren Quanwen, Mao Min, Luan Caixia, Yu Fenghao, Gao Xingang, and Ge Yongchuan. Peng Xingzheng, Chen Qing, Wang Hong, Xie Jibiao, Qiu Jinhui, Yan Xiangyang, Hu Kang, Ju Peihai, Zhang Huaxiu, Zhang Zhe, Hu Qunhui, Yang Guoyong, Zhang Lei, Gao Wei, Ge Wenyue, Chen Jian, Huang Xin, Wang Jiangwei, Liang Siyi, Yu Han, Lin Xiaofeng, Ma Hongfeng, Ba Yu, Sun Hao, Zhu Jiasheng, Xie Ruiqian, Wang

Zhonghua, Li Chengyong Zhang Ji, Yu Jingyao, Zhang Yuanchun. Guidelines for the Recycling and Utilization of Unconventional Water Resources in the Steel Industry

1 Scope

GB/T 47106-2026 is the Chinese national standard covering using treated municipal effluent, mine water, seawater and rainwater in a steelworks - where the water goes, what quality each use tolerates, the treatment needed and the scaling and corrosion that come with a poorer feed. Steelmaking is water-intensive and much of it happens in dry northern China. First edition. It was issued on 28 January 2026 and has been in force since 1 August 2026, as a first edition. 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.

This document provides the basic principles, technical content, water use management, and safety and environmental protection aspects of unconventional water resource recycling and utilization in the steel industry. Require. This document applies to the recycling and utilization of unconventional water resources in steel enterprises.

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 3097 Seawater Quality Standard

GB 8978 Integrated Wastewater Discharge Standard

GB 13456 Wastewater Pollutant Discharge Standard for Iron and Steel Industry

GB 18486 Pollution Control Standard for Marine Wastewater Treatment Projects

GB/T 18920 Water Quality Standards for Urban Wastewater Reuse and Urban Miscellaneous Water Use

GB/T 19923 Water Quality Standard for Industrial Water Used for Reclaimed Urban Wastewater

GB/T 24067 Requirements and Guidelines for Quantifying the Carbon Footprint of Greenhouse Gas Products

GB/T 31327 Design Specification for Seawater Desalination Pretreatment Membrane Systems

GB/T 31392 Technical Guidelines for Mine Water Utilization in Coal Mines

GB/T 32327 Guidelines for Evaluation of Industrial Wastewater Treatment and Reuse Technologies

GB/T 33463.1 Technical Specification for Seawater Desalination in the Iron and Steel Industry Part

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