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Green product assessment - Steel tubes

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Table of Contents

Foreword...	3
1 Scope...	5
2 Normative References...	5
3 Terms and Definitions...	9
4 Product Categories...	9
5 Assessment Requirements...	10
27 Bibliography...	32

Foreword

This document was drafted in accordance with the rules provided in GB/T 1.1-2020 Directives for Standardization - Part

1. Rules for the Structure and Drafting of Standardizing Documents. Please be noted that certain content of this document may involve patents. The institution issuing this document does not undertake the responsibility of identifying these patents. This document was jointly proposed by China Iron & Steel Association and National Green Product Evaluation Standardization Overall Group. This document shall be under the jurisdiction of National Technical Committee 183 on Steel of Standardization Administration of China (SAC/TC 183). The drafting organizations of this document. Zhejiang Kingland Pipeline and Technologies Co., Ltd.; Hengyang Valin Steel Tube Co., Ltd.; Zhejiang Jiuli Hi-Tech Metals Co., Ltd.; Zhejiang Zhongda Advanced Material Co., Ltd.; Steel Research Institute Testing & Certification (Beijing) Co., Ltd.; Bao Steel Co., Ltd.; China National Institute of Standardization; Tianjin Youfa Steel Pipe Group Co., Ltd.; Jingjiang Special Steel Co., Ltd.; Jiangsu Wujin Stainless Steel Pipe Group Co., Ltd.; CNPC Baoji Petroleum Pipe Industry Co., Ltd.; Zhejiang Jinxin Stainless Steel Manufacturing Co., Ltd.; Shengtak New Materials Co., Ltd.; Jiangsu Liwan Precision Tube Manufacturing Co., Ltd.; Zhejiang Huatian Special Materials Co., Ltd.; Central Iron & Steel Research Institute; Jiangsu Zhongxin Green Pipe Industry Technology Co., Ltd.; Handan Zhengda Steel Pipe Co., Ltd.; Jiangsu Hongyi Precision Industry Co., Ltd.; Jiangsu Dom Co., Ltd.; Zhongxing Equipment Co., Ltd.; Jinan Maik Pipeline Technology Co., Ltd.; Jiangyin South Stainless Steel Pipes Co., Ltd.; Zhejiang Taifu Seamless Steel Pipe Co., Ltd.; Inner Mongolia Bao Gang United Steel Co., Ltd.; Zhejiang Dewei Stainless Steel Piping Co., Ltd.; Chengde Jianlong Special Steel Co., Ltd.; Heilongjiang Jianlong Steel Co., Ltd.; Zhejiang Tsingshan Steel Pipe Co., Ltd.; Tianjin Juncheng Pipeline Industry Co., Ltd.; Tianjin Yuantai Derun Steel Pipe Manufacturing Group Co., Ltd.; Zhejiang Julong Special Materials Group Co., Ltd.; Hebei Jinao Seiki Manufacture

Inc.; Jiangsu JieDa Specific New Materials Co., Ltd.; Shandong Guowei Iron & Steel Co., Ltd.; Chengdu Advanced Metal Materials Industry Technology Research Institute Co., Ltd.; Qinghai HuaHui New Energy Co., Ltd.; Zhejiang Lunbao Pipe Co., Ltd.; Hangzhou Environmental Protection Technology Consulting Co., Ltd.; Cixi Chenghe Pipe Industry Co., Ltd.; China Metallurgical Information and Standardization Institute. The main drafters of this document. Yang Weifang, Li Tongming, Zhong Xuequan, Zhou Huimin, Yu Xiemin, Chen Xiaofu, Luo Jing, Yu Lu, Xu Bingsheng, Zhao Fuliang, Yu Daojun, Xu Hang, Wang Heping, Lou Zhen, Zhou Wenqing, Ni Zhihong, Cheng Jianchi, Bao Hansheng, He Zhongchen, Zhang Hongshun, Qian Jinjing, Chen Hongyu, Qiu Yunlong, Liu Changchun, Qian Hangyu, Dou Zhichao, Wang Zenghai, Xie Yi, Jiang Caiyan, Li Hongbo, Cao Xinming, Guo Jianjun, Liu Kaisong, Xia Ren'ai, Cheng Yongqing, Xue Jieping, Ren Shilei, Tian Xiaolin, Zhang Jiajie, Zheng Zhongcai, Zhang Shengnan, Qian Duo, Li Qi, Dong Lihao, Peng Yang, Chen Ping, Li Zimo, Song Zhonghua, Zhu Yi, Lang Junya, Li Xiangjun, Shi Junnan, Mao Green Product Assessment - Steel Tubes

1 Scope

GB/T 47090-2026 is the Chinese national standard covering how steel tube is assessed as a green product - the steelmaking route and scrap input behind it, the energy of piercing or welding and of the heat treatment, the yield, and the emissions and waste per tonne. First edition, completing the steel product set with plate, sections and reinforcing bar published earlier in the year. 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 specifies the assessment requirements and methods for green steel tube products. This document applies to the assessment of green products of seamless steel tubes, welded steel tubes, composite steel tubes and precision steel tubes.

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 2589 General Principles for Calculation of Total Production Energy Consumption

GB/T 3087 Seamless Steel Tubes and Pipes for Low and Medium Pressure Boiler

GB/T 3090 Seamless Small Diameter Stainless Steel Tubes

GB/T 3091 Welded Steel Pipes for Low Pressure Liquid Delivery

GB/T 3093 High-pressure Seamless Steel Tubes for Diesel Engine

GB/T 3094 Cold Drawn Shaped Steel Tubes

GB/T 3639 Seamless Cold-drawn or Cold-rolled Steel Tubes for Precision Applications

GB/T 5310 Seamless Steel Tubes and Pipes for High Pressure Boiler

GB/T 5312 Seamless Steel Tubes and Pipes for Ship

GB/T 6728 Cold Forming Sectional Steel for General Structure

GB/T 8162 Seamless Steel Tubes for Structural Purposes

GB/T 8163 Seamless Steel Pipes for Liquid Service

GB/T 9711 Petroleum and Natural Gas Industries - Steel Pipe for Pipeline Transportation Systems

3 Terms and Definitions

The terms and definitions defined in GB/T 30062 and GB/T 33761 are applicable to this document.

4 Product Categories

The steel tube products applicable to this document are classified in accordance with Table 1. When determining the product classification, the product category shall be determined in accordance with the secondary classification. Table 1 -- Steel Tube Product Classification and Implemented Standards

5.1 Basic Requirements

5.1.1 Production enterprises shall be legally established and comply with relevant laws, regulations, policies and standards during construction and production. They shall have no major or above-level safety accidents or major or above-level environmental pollution incidents in the past three years (including those established for less than three years).

5.1.2 Production enterprises shall adopt advanced technologies and processes encouraged by the state, implement clean production, and shall not use technologies, processes, equipment or related substances that have been phased out or prohibited by the state or relevant departments.

5.1.3 Production enterprises shall establish, implement, maintain and continuously improve quality management, occupational health and safety management, environmental management, and energy management systems in accordance with GB/T 19001, GB/T

45001, GB/T 24001 and GB/T 23331.

5.1.4 Production enterprises shall equip themselves with necessary energy and water metering instruments and manage them in a standardized manner in accordance with GB 17167 and GB/T 24789.

5.1.5 Production enterprises shall, in accordance with environmental protection laws and regulations, equip and operate pollutant treatment, monitoring, or online monitoring equipment. Pollutant emissions shall comply with national and local pollutant emission standards, as well as total pollutant control and discharge permit management requirements.

5.1.6 Production enterprises shall meet national and local requirements for enterprise carbon emission management and control.

5.1.7 In accordance with product classification, the quality of steel tube products shall comply with the provisions of the standards listed in Table

1. For other steel tube products not included in Table 1, the quality shall comply with the provisions of their implemented standards.

5.2 Requirements for Assessment Indicators

Note 1. 2. **Search (Optional).** Enter the keyword **GB/T 47090-2026** in the search bar, if it is not already shown. 3.

Note 2. 9.

Note 3. 10. **Verification (USD**

Notes and Explanations

Note 1: **[GB/T 47090-2026]**(<https://>

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