

ICS 77-010
CCS H 04



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

GB/T 45436-2025

Code for technical upgrading of EAF process and equipment

电炉工艺及装备技术改造规范

Issued on: March 28, 2025

Implemented on: October 1, 2025

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

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

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 for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Iron and Steel Association.

This document is under the jurisdiction of the National Technical Committee on Steel Standardization (SAC/TC183).

This document was drafted by: Baosteel Engineering Technology Group Co., Ltd., Jiangsu Shagang Group Co., Ltd., Sinosteel Wuhan Safety and Environmental Protection Research Institute Co., Ltd., Shanghai Baineng Engineering Technology Co., Ltd., Metallurgical Industry Information Standards Research Institute, Beijing Metalage Engineering Technology Co., Ltd.

China Metallurgical Engineering Technology Co., Ltd., Beijing Shougang International Engineering Technology Co., Ltd., Guangxi Guixin Steel Intelligent Manufacturing Co., Ltd., Hebei Pu Yang Iron and Steel Co., Ltd., Tangshan Yutian Jinzhou Industrial Co., Ltd., Sichuan Dugang Iron and Steel Group Co., Ltd., Guangdong Jinshenglan Metallurgical Science and Technology Technology Co., Ltd., Shengli (Qingyuan) Steel Products Co., Ltd., Anyang Iron and Steel Group Co., Ltd., Chengdu Metallurgical Experimental Plant Co., Ltd., Xinjiang Xinan Special Steel Co., Ltd. and Guangxi Beigang New Materials Co., Ltd.

The main drafters of this document are: Xu Hanming, Cui Licheng, Chen Jian, Mao Rui, Wan Yingfeng, Yang Zhixin, Feng Wei, Wang Yao, Bao Rendong, Shang Huitao, Qiu Jinhui, Yan Qinglin, Chen Jing, Wang Han, Fan Jun, Wu Guoping, Chen Gen, Zhang Ruopeng, Li Jianchun, Ruan Rujin, Chen Shitong, Xie Qingmin, Ke Jianyi, Huang Zhong, Wei Tangsong, Yang Li, Wang Jiangwei, Zhang Tingfeng, Zhang Jianxiao, Li Shan, Zeng Yongsheng, Kuang Zengguang, Wei Yongyi, Zheng Jinrui, Zuo Shuai, Liu Jingyuan, Deng Biao, Chen Hao, Chen Guozhong, Liu Peng, Yu Jingyao, Zhang Hongliang, Zhang Yuanchun, Fang Yao,

Tang Xiaojin, Cao Erzhan, Pan Jinrong, Wang Zhenlong, Shi Jiawei, Dou Beibei, Wang Wenzhi.

Specification for technical transformation of electric furnace technology and equipment

1 Scope

This document specifies the process flow and smelting furnace type, technical transformation requirements, safety and environmental protection transformation, Debugging, operation and maintenance.

This document is applicable to the technical transformation and acceptance of the process and equipment of AC electric arc furnaces, and shall be used as a reference for new electric arc furnaces.

2 Normative references

GB/T 2900.23

GB/T 4223

GB/T 10067.21

GB/T 12325

GB/T 12326

GB/T 14549

GB/T 15543

GB/T 15945

GB 18599

GB/T 24337

GB 28664

GB 32050

GB/T 41994

GB 50439

3 Terms and definitions

The terms and definitions defined in GB/T 10067.21 and GB/T 2900.23 apply to this document.