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

GB/T 3863-2025

Replacing GB/T 3863-2008

Industrial oxygen

工业氧

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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 for standardization documents" Drafting.

This document replaces GB/T 3863-2008 Industrial Oxygen. Compared with GB/T 3863-2008, except for structural adjustments and editorial changes, In addition, the main technical changes are as follows.

- Deleted the content related to the use, molecular formula and relative molecular mass of industrial oxygen in the scope (see Chapter 1, 2008 edition Chapter 1);
- Added a chapter on "Terms and Definitions" (see Chapter 3);
- Deleted the requirement for 99.2% purity industrial oxygen, added the requirement for industrial oxygen in storage tanks, and changed the limit requirement for moisture content (See Chapter 4, Chapter 3 of the 2008 edition);
- Added the requirements for industrial oxygen batching (see 5.1);
- Changed the requirements for industrial oxygen sampling and sampling safety (see 5.2, 4.1.2 of the 2008 edition);
- Changed the requirements for industrial oxygen sampling (see 5.3, 4.1.3 and 4.1.4 of the 2008 edition);
- Changed the method for determining oxygen content (see 6.1, 4.2 of the 2008 edition);
- Added the determination method of methane content (see 6.2);
- Changed the method for determining moisture content (see 6.3, 4.3 of the 2008 edition);
- Added requirements for exhaust gas treatment (see 6.4);
- Changed the requirements of the inspection rules and added provisions for numerical rounding (see Chapter 7, 4.1 of the 2008 edition);
- Changed the marking requirements (see 8.1, Chapter 5 of the 2008 edition);

- Changed the labeling requirements and added normative references (see 8.2, 5.12 of the 2008 edition);
- Added accompanying document requirements (see 8.3);
- Changed the provisions on packaging, filling, transportation and storage (see Chapter 9, Chapter 5 of the 2008 edition);
- Added safety information for oxygen (see Chapter 10).

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 Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Gas Standardization Technical Committee (SAC/TC206).

This document was drafted by: Guangdong Huate Gas Co., Ltd., Dalian Date Gas Co., Ltd., Hangzhou New Century Mixed Gas Co., Ltd.

Company, Southwest Chemical Research and Design Institute Co., Ltd., Zhejiang Haichang Gas Co., Ltd., Zhejiang Shaxing Technology Co., Ltd., Haohua Gas Southwest Branch of Guangdong South China Special Gas Research Institute Co., Ltd., Guizhou Yagang Gas Co., Ltd., Shaanxi Qinfeng Gas Co., Ltd.

Co., Ltd., Shandong Jingbo Petrochemical Co., Ltd., Dalian Guangming Chemical Industry Gas Quality Monitoring Center Co., Ltd., Shanghai Fanwei Instrument Equipment Co., Ltd., China Institute of Metrology and Measurement, China Industrial Gases Association, Kunming Guangruida Special Gas Co., Ltd., China Electronic System Engineering Fourth Construction Co., Ltd., Shanghai Huaai Chromatography Analysis Technology Co., Ltd., Guizhou Product Quality Inspection and Testing Institute, China Modern Science and Technology College of Jiliang University, Harbin Liming Gas Co., Ltd.

The main drafters of this document are: Fu Zhuhong, Li Fufen, Jiang Hongda, Na Zhaoyu, Chen Chongwen, Jin Congyang, Lin Dingbiao, Chen Yali, Tang Xiamei, Lai Xiaofeng, Ding Guanghua, Luo Meijin, Tang Zhongwei, Huang Xiaoqiang, Zhao Lixia, Xiang Jin, Chen Xiaobo, Zhu Ruijun, Wu Wen, Bao Xuewei, Xing Maosen, Han Lingli, Sun Xin, Yang Yangzhongfu, Bo Chungan, Gao Jing, Wang Jianjian, Cheng Huapeng, Ma Yichun, Shao Chenggang, and Lü Houchun.

The previous versions of this document and the documents it replaces are as follows.

- First published in 1983 as GB/T 3863-1983 "Gaseous Oxygen for Industrial Use";
- First revised in 1995 as GB/T 3863-1995 "Oxygen for Industrial Use";
- Revised for the second time in 2008 to GB/T 3863-2008 "Industrial Oxygen";

- This is the third revision. Industrial oxygen

1 Scope

This document specifies the technical requirements for industrial oxygen as well as batching, sampling, testing methods, inspection rules, marking, labeling, accompanying documents, It also describes the requirements for packaging, filling, transportation and storage, and provides relevant test methods and safety information for industrial oxygen.

This document applies to gaseous and liquid industrial oxygen produced by separation from air and by water electrolysis.

2 Normative references

GB/T 150

GB 190

GB/T 191

GB/T 5099

GB/T 7144

GB/T 8170

GB/T 8982

GB/T 8984

GB/T 11640

GB/T 14194

GB 15258

GB/T 15382

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