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

GB/T 28123-2025

Replacing GB/T 28123-2011

Industrial helium

工业氦

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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 28123-2011 "Industrial Helium". Compared with GB/T 28123-2011, 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 helium in the scope, changed the scope (see 1 Chapter 1 of the 2011 edition);
- Changed the technical requirements (see Chapter 4, Chapter 3 of the 2011 edition);
- Added requirements for industrial helium sampling (see Chapter 5);
- Changed the determination method of neon, hydrogen, oxygen, argon, nitrogen and methane content (see 6.2, 4.4 of the 2011 edition);
- Changed the method for determining moisture content (see 6.3, 4.3 of the 2011 edition);
- Added requirements for exhaust gas treatment (see 6.4);
- Changed the requirements for inspection rules and added provisions for rounding off of numerical values (see Chapter 7, 4.1 of the 2011 edition);
- Changed the marking requirements (see 8.1, Chapter 5 of the 2011 edition);
- Added labeling requirements (see 8.2, Chapter 5 of the 2011 edition)
- Added requirements for accompanying documents (see 8.3);
- Changed the provisions on packaging, filling, transportation and storage, and added transportation requirements (see Chapter 9, Chapter 5 of the 2008 edition);
- Added safety information for helium (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 Association.

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

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

- First published in 1995 as GB/T 4844.1-1995 "Industrial Helium";
- First revised in 2011 as GB/T 28123-2011 "Industrial Helium";
- This is the second revision. Industrial helium

1 Scope

This document specifies the technical requirements for industrial helium, sampling, test methods, inspection rules, marking, labeling, accompanying documents, packaging, filling, The requirements for transportation and storage are described, relevant test methods are described, and safety information for industrial helium is provided.

This document applies to industrial helium in gaseous and liquid forms produced by cryogenic methods and recovered.

2 Normative references

GB/T 150

GB 190

GB/T 191

GB/T 4844

GB/T 5099

GB/T 5832.1

GB/T 5832.2

GB/T 7144

GB/T 8170

GB/T 11640

GB/T 14194

GB 15258

GB/T 15382

GB/T 16483

GB/T 16804

GB/T 24159

GB/T 28054

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