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

GB/T 1587-2025

Replacing GB/T 1587-2016

Potassium carbonate for industrial use

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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. This document replaces GB/T 1587-2016 "Industrial Potassium Carbonate". Compared with GB/T 1587-2016, the main differences are structural adjustments and editorial changes. Aside from the changes, the main technical changes are as follows:

- a) The Type II classification has been changed (see 6.2, 5.2 in the 2016 edition);
- b) Add a "segment" to Table 1 (see 6.2);
- c) Added Type I superior grade products and Type II "heavy metal" items, indicators, and test methods (see 6.2, 7.8);
- d) The method for determining potassium carbonate content, "acid-base titration," has been changed to "arbitration method" (see 7.3.1, 6.3.1 in the 2016 edition);
- e) An additional test method, "Inductively Coupled Plasma Atomic Emission Spectrometry" (see 7.7), has been added for the testing of sodium, calcium, magnesium, and iron content.
- f) The method for determining chloride content, "mercurimetric titration" (see 7.11.1), has been removed, and "potentiometric titration (arbitration method)" has been added. (See 6.6.1 in the 2016 edition);
- g) Batch size has been changed (see 8.2, 7.2 in the 2016 version). 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 Petroleum and Chemical Industry Federation. This document is under the jurisdiction of the National Technical Committee on Chemical Standardization (SAC/TC63). This document was drafted by: Zhejiang Dayang

Biotechnology Group Co., Ltd., Uni-Trend (Jiangsu) Chemical Co., Ltd., and Wenshui County Zhenxing. Fertilizer Co., Ltd., CNOOC Tianjin Chemical Research and Design Institute Co., Ltd., SDIC Xinjiang Lop Nur Potash Co., Ltd., Inner Mongolia Ruida Taifeng Chemical Co., Ltd., Jiangsu Kelunduo Food Ingredients Co., Ltd., Guizhou Shengwei Fuquan Chemical Co., Ltd., Hubei Yihua New Materials Technology company. The main drafters of this document are. Zheng Biqiang, Yang Zhesheng, Wang Bao, Gong Chuangzhou, Hou Jianhua, Feng Hailin, Feng Kuanyu, Li Haiyan, Li Tengfei, and Zhang Pengyu. Kong Qingwei, An Zhen, Li Jie, Liu Qingwang, Xu Guangsheng, Ma Lei, Guan Guozhong, Ding Ling, An Xiaoying. The release history of this document and the document it replaces is as follows:

---First published in 1982 as GB/T 1587-1992, revised for the first time in 2000, and revised for the second time in 2016;

1 Scope

GB/T 1587-2025 is the Chinese national standard on potassium carbonate for industrial use, in the field of chemical technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 5 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 May 2026. Classification: ICS 71.060.50, CCS G12. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the classification, requirements, test methods, inspection rules, marking and accompanying documents, packaging, transportation and storage of industrial potassium carbonate. This document applies to industrial potassium carbonate.

Note. This product is mainly used in the chemical, building materials, electronics, and rubber industries.

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/T 191-2008 Pictorial Symbols for Packaging and Storage

GB/T 3049-2006 General Method for Determination of Iron Content in Industrial Chemical

Products. 1,10-Phenanthroline Spectrophotometric Method

GB/T 3050-2000 General Method for Determination of Chloride Content in Inorganic Chemical Products - Potentiometric Titration

GB/T 6678 General Rules for Sampling of Chemical Products

GB/T 6682-2008 Specifications and test methods for water used in analytical laboratories

GB/T 8170 Rules for rounding off numerical values and the representation and determination of limiting values

GB/T 23950-2024 General Method for Determination of Heavy Metals in Inorganic Chemical Products

HG/T 3696.1 Preparation of standard solutions, preparations and products for chemical analysis of inorganic chemical products - Part

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4. Molecular formula and relative molecular mass Molecular formula. K_2CO_3 ; Relative molecular mass. 138.21 (based on the 2022 international relative atomic mass).

Industrial potassium carbonate comes in two grades. Type I is for general industrial use;