

ICS 71.060.50
CCS G 12



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

GB/T 1614-2021

Replacing GB 1614-2011

Barium carbonate for industrial use

工业碳酸钡

Issued on: August 20, 2021

Implemented on: March 1, 2022

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

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Molecular formula and relative molecular mass
- 5 Requirements

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 of Standardization Documents" Drafting. This document replaces GB/T 1614-2011 "Industrial Barium Carbonate", compared with GB/T 1614-2011, except for structural adjustments and editorial changes. In addition, the main technical changes are as follows:

---Changed the burning residue indicators of strontium carbonate, iron and hydrochloric acid insoluble matter (see 5.2,

4.2 of the 2011 edition);

--- Changed the granular sieve residue index in the fineness to be negotiated with the user (see 5.2,

4.2 in the 2011 edition);

---Increase the sodium index (see 5.2);

---Inductively coupled plasma emission spectrometry for the determination of strontium carbonate content has been added (see 6.4.2);

--- Deleted the combustion capacity method for the determination of total sulfur content (see

5.7.2 of the 2011 edition);

---Infrared absorption method for the determination of total sulfur content has been added (see 6.8.2);

---The method for the determination of sodium content has been added (see 6.10). Please note that some of the contents of this document may involve patents. The issuing agency of this document is not responsible for identifying patents. This document was proposed by the

China Petroleum and Chemical Industry Federation. This document is under the jurisdiction of the Inorganic Chemical Subcommittee of the National Chemical Standardization Technical Committee (SAC/TC63/SC1). Drafting organizations of this document. Qingdao Red Star Chemical Group Co., Ltd., Guizhou Hongtai Barium Industry Co., Ltd., CNOOC Tianjin Chemical Research and Design Institute Co., Ltd., Lake Beijing Shanchutian Barium Salt Co., Ltd., Shenzhou Jiaxin Chemical Co., Ltd., Hebei Xinji Chemical Group Mission limited liability company. The main drafters of this document. Guo Hanguang, Zhu Ziyang, Li Xia, Zhang Qi, Sun Yuezong, Li Lanying, Liang Qibo, Nan Yugen, Zheng Xingang, Sun Yuerong, Sun Shikun, Zeng Kaiwen, Zhao Meijing. The previous versions of this document and the documents replaced are as follows:

--- First published in 1979 as GB 1614-1979, first revised in 1989, second revised in 1999, and third revised in 2011;

---This is the fourth revision. Industrial Barium Carbonate Warning. According to the provisions of Chapter 6 of GB 12268-2012, this product belongs to the 6th toxic substance in category 6. Some reagents used in this document are corrosive. If splashed on the skin or eyes, rinse with water immediately. medical. Personnel using this document should have practical experience in formal laboratory work. This document does not point out all possible security issues. use It is the responsibility of the person to take appropriate safety and health measures and to ensure compliance with the conditions stipulated by relevant national laws and regulations.

1 Scope

GB/T 1614-2021 is the Chinese national standard on barium 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 20 August 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2022. Classification: ICS 71.060.50, CCS G 12. 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.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to This document.

GB/T 191-2008 Graphical signs for packaging, storage and transportation

GB/T 3049-2006 General method for determination of iron content in industrial chemical products 1,10-phenanthroline spectrophotometric method

GB/T 6003.1-2012 Technical requirements and inspection of test sieves Part

GB/T 6678 General Rules for Sampling of Chemical Products

GB/T 6682-2008 Analytical laboratory water specifications and test methods

GB/T 8170 Numerical rounding rules and the expression and determination of limit values

HG/T 3696.2 Preparation of standard solutions, preparations and products for chemical analysis of inorganic chemical products Part

3 Terms and definitions

There are no terms and definitions that need to be defined in this document.

4 Molecular formula and relative molecular mass

Molecular formula. BaCO_3

3 Relative molecular mass. 197.34 (according to 2018 international relative atomic mass)

5 Requirements

5.1 Appearance. white powder or granules.