

ICS 27.010  
CCS F01



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

**GB 21252-2023**

Replacing GB 21252-2013

---

**Norm of energy consumption for unit production of architecture  
and sanitary ceramics and alumina grinding ball**

建筑卫生陶瓷和耐磨氧化铝球单位产品能源消耗限额

**Issued on: November 27, 2023**

**Implemented on: December 1, 2024**

---

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

## Table of Contents

- 1 Scope
- 2 Normative reference documents
- 3 Terms and definitions

### 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 21252-2013 "Energy Consumption Limits of Building Sanitary Ceramics Unit Products" and GB 30181-2013 "Microcrystalline Oxygen "Energy consumption limit per unit product of aluminum ceramic grinding balls", compared with GB 21252-2013 and GB 30181-2013, except for structural adjustment and In addition to editorial changes, the main technical changes are as follows:

- a) The scope of application has been changed (see Chapter 1, Chapter 1 of GB 21252-2013, Chapter 1 of GB 30181-2013);
- b) Added energy consumption limit levels (see Chapter 4);
- c) The advanced value of energy consumption is deleted (see 4:3 of GB 21252-2013 and 4:4 of GB 30181-2013);
- d) The energy consumption limits per unit product for ceramic tiles (dry pressed), sanitary ceramics and wear-resistant alumina balls have been changed (see Table 1, Table 5, Table 6);
- e) Increased the energy consumption limits per unit product for ceramic plates, ceramic tiles and dry-hanging hollow ceramic plates at all levels (see Table 1, Table 3, and Table 4);
- f) The thickness correction coefficient for comprehensive energy consumption per unit product of ceramic tiles (dry pressed) and ceramic plates has been added (see Table 2);
- g) Energy saving management and measures are deleted (see Chapter 6 of GB 21252-2013 and Chapter 6 of GB 30181-2013): Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents: This document is proposed and coordinated by the National Standardization Administration Committee: The previous versions of the documents replaced by this document are as follows:

---GB 21252, first released in:2007, first revised in:2013;

---GB 30181, first released in:2013: Building sanitary ceramics and wear-resistant alumina balls Energy consumption limit per unit product

## 1 Scope

GB 21252-2023 is the Chinese national standard on norm of energy consumption for unit production of architecture and sanitary ceramics and alumina grinding ball, in the field of energy and heat transfer engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 27 November 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 December 2024. Classification: ICS 27.010, CCS F01. 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 stipulates the limit level, technology and energy consumption per unit product of building sanitary ceramics and wear-resistant alumina balls (hereinafter referred to as energy consumption): Requirements, statistical scope and calculation methods: This document is applicable to the calculation and assessment of energy consumption of building ceramics, sanitary ceramics and wear-resistant alumina ball production enterprises, as well as for new construction, reconstruction and Energy consumption control for expansion projects:

## 2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

GB/T 213 Calorific value determination method of coal

GB/T 384 Determination of calorific value of petroleum products

GB/T 2589-2020 General principles for comprehensive energy consumption calculation

GB/T 4100 ceramic tiles

GB/T 6952 sanitary ceramics

GB/T 12723 General rules for compiling energy consumption limits per unit product

GB/T 21149 Sintered tiles GB/T 23266 Ceramic Plate

GB/T 24851 Equipment and management requirements for energy measuring instruments in the building materials industry

GB/T 27972 Dry hanging hollow ceramic plate

GB/T 39156 Technical requirements and test methods for large-size ceramic plates JC/T 765 Architectural glazed products JC/T 848:

### 3 Terms and definitions

GB/T 4100, GB/T 6952, GB/T 12723, GB/T 21149, GB/T 23266, GB/T 27972, GB/T 39156, The following terms and definitions as defined in JC/T 765 and JC/T 848:1 apply to this document: 3:

1 During the statistical reporting period, the total amount of energy actually consumed for the production of building sanitary ceramics and wear-resistant alumina ball products: 3:

2 Comprehensive energy consumption of building sanitary ceramics and wear-resistant alumina ball products expressed in units of qualified product output: