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

GB 32032-2024

Replacing GB 32033-2015

**Norm of energy consumption per unit production for gold
mining, mineral processing, metallurgy and refining of gold**

金矿开采、选冶和金精炼单位产品能源消耗限额

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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 32032-2015 "Energy consumption limits for gold mining units", GB 32033-2015 "Energy consumption limits for gold mining units GB 32034-2015 "Energy Consumption Limits for Gold Refining Unit Products", GB 32032-2015, Compared with GB 32033-2015 and GB 32034-2015, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) Added energy consumption limit levels (see Chapter 4);
- b) Added the energy consumption limit per unit product for open-pit mining (see 4:1);
- c) Added the energy consumption limit per unit product of the pressure oxidation process (see 4:2);
- d) Added the energy consumption limit per unit product of the matte gold-catching process (see 4:2);
- e) Modified the technical requirements for the comprehensive energy consumption per unit product of gold mining, smelting and gold refining (see Chapter 5, GB 32032- 2015, Chapter 4 of GB 32033-2015 and GB 32034-2015);
- f) Energy-saving management and measures (see GB 32032-2015, GB 32033-2015 and GB 32034-2015, Section 6) have been deleted: chapter);
- g) The appendices have been modified (see Appendices A to D, GB 32032-2015, GB 32033-2015 and GB 32034-2015): Appendix A, Appendix B): 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 is proposed and coordinated by the National Standardization Administration: The previous versions of this document and the documents it replaces are as follows:

---First released in:2015 as GB 32032-2015, GB 32033-2015, GB 32034-2015; Products of gold mining, beneficiation and refining units Energy consumption limit

1 Scope

GB 32032-2024 is the Chinese national standard on norm of energy consumption per unit production for gold mining, mineral processing, metallurgy and refining of gold, 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 29 April 2024 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 May 2025. 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 specifies the technical requirements, statistics and quotas for energy consumption per unit product (hereinafter referred to as energy consumption) for gold mining, metallurgy and gold refining: Scope and calculation method: This document is applicable to the calculation and assessment of energy consumption per unit product of gold mining, beneficiation and refining, as well as the energy consumption of new or expanded projects: Consumption control:

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document: For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document:

GB/T 2589 General rules for comprehensive energy consumption calculation GB/T 4134 Gold Ingot

GB/T 8170 Rules for rounding off values and expression and determination of limit values

GB/T 12723 General rules for the compilation of energy consumption limits per unit product

3 Terms and definitions

The terms and definitions defined in GB/T 2589 and GB/T 12723 apply to this document:

4 Energy consumption limit levels

1 Energy consumption limit level per unit product of gold mining The energy consumption limit per unit product of gold mining is divided into three levels, among which level 1 has the lowest energy consumption: The consumption should meet the requirements of Table 1:
Table

1 Comprehensive energy consumption limit level per unit product of gold mining Serial number mining method Production scale t/a Comprehensive energy consumption per unit product of gold mining kgce/t Level