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

**GB 32375-2025**

Replacing GB/T 32375-2015

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**Safety technical specification for production of calcium carbide**

电石生产安全技术规范

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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 32375-2015 "Safety Technical Regulations for Calcium Carbide Production". Compared with GB/T 32375-2015, the main differences are in the structural design. Aside

from integration and editorial changes, the main technical changes are as follows:

- a) The scope of the document has been changed (see Chapter 1, Chapter 1 of the.2015 edition);
- b) The terms "calcium carbide furnace" and "closed furnace" and their definitions have been removed (see 3.2 in the.2015 edition);
- c) Added the terms "electrode cylinder", "calcium carbide cooling plant", "calcium carbide warehouse", and "indirect closed-loop cooling water system" and their definitions (see section [number]). Chapter 3);
- d) Added basic safety management, plant site selection and layout, buildings (structures), piping and equipment, electrical instrumentation and intelligent management (see 4.1~4.6);
- e) The requirements for the unloading robot have been changed (see 4.5.2, 4.5.3, 5.6.1~5.6.3, and 4.8.13 in the.2015 version);
- f) The requirements for raw material preparation have been changed (see 5.2, 4.1-4.3 of the.2015 edition);
- g) The requirements for electrode paste application and electrode cylinder connection have been changed (see 5.3, 4.4.1~4.4.5, 4.12.1~4.12.10 in the.2015 version);
- h) The requirements for operating the calcium carbide furnace have been changed (see 5.4, 4.5.1~4.6.7, 4.6.1~

## 1 Scope

GB 32375-2025 is the Chinese national standard on safety technical specification for production of calcium carbide, in the field of environment and health protection, safety. 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 5 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 September 2026. Classification: ICS 13.100, CCS C 66. 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 basic requirements for calcium carbide production enterprises,

as well as the requirements for production safety, storage safety, handling of abnormal operating conditions, and emergency response. The corresponding verification methods are described. This document applies to the production, storage, handling of abnormal operating conditions, and emergency response of calcium carbide production enterprises.

## 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 567.2 Rupture disc safety devices - Part