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

GB 48006-2026

**Requirements of electromagnetic compatibility in underground
coal mine**

煤矿井下电磁兼容要求

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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. 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 and is under the jurisdiction of the National Mine Safety Administration. Electromagnetic compatibility requirements in underground coal mines

1 Scope

GB 48006-2026 is the Chinese national standard on requirements of electromagnetic compatibility in underground coal mine, in the field of mining and minerals. 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 28 January 2026 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 November 2026.

Classification: ICS 73.100.99, CCS D98. 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 electromagnetic compatibility requirements for electrical equipment in underground coal mines and describes the corresponding test methods. This document applies to the limit measurement of electromagnetic environment in underground coal mines, and to the measurement of operating frequencies in underground coal mines within the range of 0Hz to 400GHz. Electromagnetic compatibility design, manufacturing and inspection of electrical equipment and its downhole installation. This document covers the emission requirements for radio frequency interference in the 9kHz~6GHz frequency band. This document covers the immunity requirements for underground electrical equipment in coal mines operating in the frequency range of 0Hz to 400GHz.

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 4365-2024 Electromagnetic Compatibility (Electromagnetic Engineering Terminology)

GB/T 6113.201-2025 Specification for Radio Interference and Immunity Measurement Equipment and Methods - Part 2-

1.Radio Interference Immunity measurement methods and conducted disturbance measurement

GB/T 6113.203-2020 Specification for Radio Interference and Immunity Measurement Equipment and Methods - Part 2-

3.Radio Interference Immunity measurement methods and radiated disturbance measurement

GB/T 15663.11 Coal Mine Technical Terminology Part

3 Terms and Definitions

The terms and definitions defined in GB/T 4365-2024 and GB/T 15663.11, as well as the following terms and definitions, apply to this document.

11 Coal Mine Electrical Equipment

GB/T 17626.2 Electromagnetic compatibility testing and measurement techniques - Electrostatic discharge immunity test

GB/T 17626.3 Electromagnetic compatibility testing and measurement techniques - Part