

ICS 73.100.01
CCS D09



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

GB 48145-2026

**Requirements for the integrity of mechanical and electrical
equipment in underground coal mine**

井工煤矿机电设备完好性要求

(English Translation)

Issued on: August 27, 2026

Implemented on: March 1, 2027

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

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Foreword

GB 48145-2026 is a mandatory national standard (GB) of the People's Republic of China, issued on 27 August 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 March 2027.

It is under the responsibility of the National Mine Safety Administration.

Classification: ICS 73.100.01; CCS D09.

1 Scope

This mandatory national standard sets out requirements for the integrity of mechanical and electrical equipment in use in underground coal mines. It deals with basic requirements, explosion-proof requirements and performance requirements for electrical equipment, and requirements for mechanical equipment, and it serves as the basis for integrity inspection of such equipment. Metal and non-metal underground mines that are associated with and coexist with coal are directed to refer to it when inspecting their own equipment. Colliery operators, mine maintenance and electrical engineering teams, safety inspectors and suppliers of mining machinery will use it to plan inspection routines and to judge whether installed equipment is fit to remain in service. It was issued on 27 August 2026 under the responsibility of the National Mine Safety Administration, takes effect on 1 March 2027, and is mandatory in China, so compliance is a condition for operating covered equipment underground.