

ICS 29.260.20
CCS K35



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

GB 48141-2026

Replacing GB 25286.2-2010

**Technical specification of explosion protection for equipment
for explosive atmospheres**

爆炸性环境设备防爆技术规范

(English Translation)

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Foreword

GB 48141-2026 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 September 2027.

This edition replaces GB 25286.2-2010.

It is under the responsibility of the Ministry of Industry and Information Technology.

Classification: ICS 29.260.20; CCS K35.

1 Scope

Explosion-protection technical requirements for equipment used in explosive atmospheres are defined in this mandatory national standard. It covers equipment in hazardous areas and the common safety requirements for equipment and protective systems across design, manufacture, inspection, sale, area classification, selection, installation, use, overhaul and maintenance. Its structure includes equipment categories and protection levels, basic safety requirements for design and construction, and explosion-proof inspection and testing, with annexes on hazardous area classification, equipment selection, worker protection and warning signs. Manufacturers of explosion-protected equipment, plant designers, safety engineers, test and certification bodies and operators in oil, gas, chemical and mining settings will use it. It replaces GB 25286.2-2010, was issued on 27 August 2026 under the responsibility of the Ministry of Industry and Information Technology, takes effect on 1 September 2027, and is mandatory in China.