

ICS 13.100
CCS D09



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

GB 40880-2021

Specification for coal mine gas classification identification

煤矿瓦斯等级鉴定规范

Issued on: October 11, 2021

Implemented on: May 1, 2022

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

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Classification of coal mine gas	2
5 General requirements	3
6 Outstanding mine identification	3
7 Appraisal of high gas mine grade	4
13 Appendix G (Normative) Coal Mine Gas Dynamic Phenomenon Record Card	15

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 of Standardization Documents" Drafting. Please note that some of the contents of this document may involve patents. The issuing agency of this document is not responsible for identifying patents. This document was proposed and managed by the National Mine Safety Supervision Bureau.

The appraisal of coal mine gas rank is an important work to determine the coal mine gas rank, and it is an important basis for coal mine gas prevention and control. Our country is learning A lot of research work has been done in setting indicators and judgment rules. In.2006, the first two safety production AQ1024 and AQ1025 were released. Industry Standard. AQ1024-2006 and AQ1025-2006 have been issued and implemented for more than ten years. Both the Outstanding Regulations and the Interim Measures for the Appraisal of Coal Mine Gas Grades have been revised, and the relevant gas grade classification, appraisal indicators and judgment rules have been revised. Certain changes have also taken place. In January.2017, the Office of the State Council's Standardization Coordination and Promotion Inter-ministerial Joint Conference issued a "Integrate and streamline" conclusions, confirm the integration of AQ1024-2006 and AQ1025-2006, and formulate the "Coal Mine Gas Grade Appraisal Specification" And it has been upgraded to a mandatory national standard. This document integrates AQ1024-2006 "Coal and Gas Outburst Mine Appraisal Specification" and AQ1025-2006 "Mine Gas Grade Appraisal" Compared with AQ1024-2006 and AQ1025-2006, except for structural adjustments and editorial changes, the main technical changes are as follows:

a) According to the content of the document, the "scope" was re-expressed (see Chapter 1,

AQ1024-2006 and AQ1025-2006 Chapter 1);

b) The term names and definitions have been changed (see 3.1, 3.3, 3.4, 3.5,

3.9 and 3.11, AQ1024-2006 and AQ1025- 2006's 3.1,

c) Added terms and definitions (see 3.2, 3.6, 3.7,

d) The content of the expression of the classification of coal mine gas has been changed (see Chapter 4, AQ1025-2006, 6.2);

e) The general requirements are changed (see Chapter 5, Chapter 4 of AQ1025-2006);

f) The expression that highlights the basis of mine identification, the content of the identification basis and the method of evaluation Determination method" and the form of the appendix (see 6.1, 6.2, appendix A and appendix D,

5.1 of AQ1024-2006);

g) Changed the measurement point layout of the coal seam outburst hazard index (see 6.2.3,

5.1.3 of AQ1024-2006);

h) The expression form of the judgment rule for the identification of outstanding mines has been changed, and the identification of outstanding mines has been added (see 6.3, AQ1024-2006 5.2);

1 Scope

GB 40880-2021 is the Chinese national standard on specification for coal mine gas classification identification, 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 11 October 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 May 2022. Classification: ICS 13.100, CCS D09. 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 classification, general requirements, appraisal basis, appraisal indicators and their measurement methods, judgment rules and appraisal of coal mine gas levels. Determine the content of the report, etc. This document is applicable to the identification of high gas mine grades, coal and gas (carbon dioxide) outburst mines and coal seams, as well as rock and secondary Identification of carbon oxide (gas) outburst in

mines and rock formations.

2 Normative references

The content of the following documents constitutes an indispensable clause of this document through normative references in the text. Among them, dated quotations Only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to This document.

GB/T 15663.8 Coal Mine Science and Technology Terminology Part

3 Terms and definitions

GB/T 15663.8, GB/T 23561.12, AQ1018, AQ1047, AQ1080 and AQ1083 and the following terms and The definition applies to this document.

3.1 Coalminegasclassification Coal shingles classified according to the amount of gas emission, the form of gas emission, the actual gas dynamic phenomenon, and outburst hazard indicators, etc. The level of the degree of danger.

3.2 Gas dynamical phenomenon There is a phenomenon in which gas participates in or is accompanied by a large amount of gas gushing and coal (rock) produces a dynamic effect.

3.3 Coal (rock) and gas (carbondioxide) outburst Under the combined action of ground stress and gas (carbon dioxide), the broken coal (rock) and gas (carbon dioxide) suddenly moved from the coal (rock) body to the Abnormal dynamic phenomena thrown by the mining space. [Source: GB/T 15663.8-2008, 5.27, with modification]

8 Coal Mine Safety

GB/T 23250 Direct measurement method of coal seam gas content underground

GB/T 23561.12 Method for determination of physical and mechanical properties of coal and rock Part

12.Method for determination of solidity coefficient of coal AQ1018 Mine Gas Emission Forecast Method AQ1047 Direct Measurement Method of Coal Seam Gas Pressure in Coal Mine AQ1080 coal gas emission initial velocity index (Deltap) measurement method AQ1083 Coal Mine Construction Safety Code MT380 Anemometer for Coal Mine