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

GB/T 12719-2021

Replacing GB 12719-1991

**Exploration specification of hydrogeology and engineering
geology in mining areas**

矿区水文地质工程地质勘查规范

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General	2
4.1 Phase division and basic tasks of prospecting work	2
4.2 Basic Principles of Prospecting	2
5 Hydrogeological exploration of mining area	3
5.1 Classification of survey types	3
5.2 Requirements for the degree of exploration	4
5.3 Principles and quantities of survey engineering layout	6
5.4 Technical requirements for prospecting	10
5.5 Calculation of Mine (Pit) Water Inflow	14
5.6 Water inrush (inrush) risk assessment	14
5.7 Evaluation of comprehensive utilization of water resources in mining areas	15
6 Engineering geological survey of mining area	15
6.1 Classification of survey types	15
6.2 Requirements for the degree of exploration	16
6.3 Principles and quantity of survey engineering layout	18
6.4 Technical requirements for survey	19
6.5 Engineering geological evaluation of mining area	21
7 Investigation and evaluation of geological environment in mining area	22
7.1 Geological environment survey	22
7.2 Assessment of the geological environment of the mining area	23
8 Report preparation requirements	24
8.1 General requirements	24
8.2 Requirements for writing report	24
42 References	43

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 12719-1991 "Code for Hydrogeology and Engineering Geological

Prospecting in Mining Areas". Compared with GB/T 12719-1991, In addition to editorial changes, the main technical changes are as follows:

- Modified the standard name, changed from "Mining Area Hydrogeology Engineering Geological Prospecting Specification" to "Mining Area Hydrogeology Engineering Geological Prospecting Regulations" Fan";
- Added normative references (see Chapter 2, Chapter 2 of the.1991 edition);
- Modified some terms and definitions (see 3.1, 3.2, 3.3 and 3.6, B1, B2, B6 and B16 in the.1991 edition);
- Deleted some terms and definitions (see B3~B5, B7~B14, B17 and B18 in the.1991 edition);
- Added some terms and definitions (see 3.7~3.8);
- Added the basic tasks of the general survey stage and detailed investigation stage of hydrogeological survey of the mining area (see 4.1.1, 4.1.2);
- Modified the basic tasks of the mining area hydrogeological exploration and exploration stage (see 4.1.3, 3.1 of the.1991 edition);
- Modified the basic principles of hydrogeological exploration in mining areas (see 4.2, 3.2 in the.1991 edition);
- Modified the basis for the classification of the complexity of various water-filled deposits (see 5.1.3, 4.1.3 of the.1991 edition);

1 Scope

GB/T 12719-2021 is the Chinese national standard on exploration specification of hydrogeology and engineering geology in mining areas, in the field of mining and minerals. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 21 May 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 December 2021. Classification: ICS 73.020, CCS D14. 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 standard specifies the type of survey, the degree of survey, the engineering quantity, the technical requirements for survey, and the geological evaluation of the hydrogeology, engineering, geology and environment of the mining area And the basic requirements for report writing. This standard is applicable to the exploration work in various stages of hydrogeology and engineering geology in solid mineral mining areas. It is the formulation of exploration design and engineering quality inspection. Basis for inspection, acceptance, report writing, review and approval.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB 3838 Surface Water Environmental Quality Standard

GB 5749 Sanitary Standard for Drinking Water

GB 8537 National Food Safety Standard Drinking Natural Mineral Water

GB/T 11615 Specification for Geological Prospecting of Geothermal Resources

GB/T 14848 Groundwater Quality Standard

GB 18306 China Earthquake Parameter Zoning Map DZ/T 0342-2020 Mine Water Inflow Forecast Calculation Regulation

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Main water-filling aquifer Under the mining conditions of the ore deposit, one or more aquifers with a large water-filled capacity are generated for the shaft.

3.2 Hydrogeological exploration Field and indoor hydrogeological work to find out the hydrogeological conditions of an area.

Note. Including hydrogeological surveying and mapping, geophysical prospecting, drilling, testing, groundwater dynamic monitoring, etc.

3.3 Mine (pit) water inflows of mines The amount of water inflow in a mine (pit) formed by changing water-filling factors (excluding water inrush from wells and roadways, surface water intrusion, etc.).

3.4 Engineeringgeologicalproblemsofmines The general term for geological hazards caused by the interaction between mining engineering and rock and soil.

3.5 Geological environment assessment of mining area geological environment
qualityassessmentofminingareas The evaluation of the current status of the geological
environment quality in the mining area and the prediction of the geological environment
quality under the mining conditions, and then propose the control and

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