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

DZ/T 0275.1-2015

**Specification identification of rock and mineral. Part 1: General
rules and regulation
(English Translation)**

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Table of Contents

- Foreword
- Introduction
- 1 Scope
- 2 Normative references
- 3 Terms and definitions

Foreword

DZ/T 0275 "Specifications for Rock Mine Identification" is divided into five parts.

- Part 1. General and general provisions;
- Part 2. Rock sheet preparation;
- Part 3. Ore film preparation;
- Part 4. Identification of rock flakes;
- Part 5. Ore light film identification.

This part is the first part of DZ/T 0275.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part is proposed by the Ministry of Land and Resources of the People's Republic of China.

This part is under the jurisdiction of the National Land Resources Standardization Technical Committee (SAC/TC93).

This section drafted by. Zhejiang Institute of Geology and Mineral Resources.

Introduction

Rock identification is an important part of geological work. It is the application of various physical and chemical methods to the minerals that make up the geological body, Rocks and ores are observed, identified and studied to determine the technical methods of their species and characteristics.

For more than 60 years, the rock and mineral identification work carried out by the geological and mineral industry has been basically based on textbooks or self-edited instructions. DZ/T 0130.9-2006 "Geological and Minerals Laboratory Test Quality Management Specification Part 9. Identification of Rock Mineral Samples" only for the

management of rock and mineral identification laboratories the regulations, GB/T 17412 "Rock Classification and Naming Scheme" also only give the rock classification naming scheme, the geology and mineral industry has not yet A technical specification for rock ore identification.

DZ/T 0275 mainly involves the identification of reflective microscopes and polarized light microscopy. DZ/T 0275 does not exclude the use of new technology for light film and the preparation of flakes and the use of new rock and mineral identification techniques and methods, does not limit the preparation of other rock and mineral identification technical specifications. DZ/T 0275 A geological and mineral industry rock ore identification method, the regulation of rock and mineral identification agency management has made provisions and requirements, is the relevant national standards and lines Supplement to industry standards.

DZ/T 0275 "Specifications for Rock and Mineral Identification" and DZ/T 0130.9-2006 "Geological and Mineral Laboratory Testing Quality Management Regulations No. 9 Part. Identification of Rock Mineral Samples together constitutes the technical specifications and management specifications for rock and mineral identification. Rock classification and naming of DZ/T 0275 the method uses the provisions of GB/T 17412 "Rock Classification and Naming Scheme".

Rock and Mineral Identification Technical Specification Part 1. General and general provisions

1 Scope

This part of DZ/T 0275 stipulates the sample preparation, equipment, identification method, environment, experimental record and appraisal report in the rock mine identification work.

Basic requirements for preparation and sample disposal.

This section is applicable to the preparation and identification of regional geological surveys, mineral exploration, engineering surveys and mineral rock samples.

This section does not apply to the preparation and identification of coal, salt rock and oil rock specimens.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

DZ/T 0130.9-2006 Geological and mineral laboratory test quality management specification

- Part 9. Identification of rock mineral samples

3 Terms and definitions

The following terms and definitions apply to this document.

Rock identification identification of rock and minerals Applying various physical properties and chemical composition of minerals, determining mineral types for mineral samples, and minerals for rock and ore samples Technical methods for observation, identification, structure and rock or ore type.

Thin section

The rock or transparent mineral specimen is cut and ground to a thickness of about 0.03 mm and adhered to the glass for observation under a polarizing microscope.

Look at the film of the study.

Light slice

The ore specimen is ground to a suitable size and has a bright, mirror-like plane for viewing by a light microscope.

Rock structure texture of rocks the degree of crystallization, crystal morphology, particle size and combination of major and minor minerals in the rock.

Rock structure structure of rocks Refers to the spatial distribution characteristics of major minerals and secondary minerals in rocks or the arrangement and filling methods of different mineral aggregates.

Ore structure texture of ores it mainly refers to the degree of crystallinity of the metal minerals constituting the ore, the shape and size of the particles, and their spatial relationship.