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Artificial intelligence - Intelligent identification of rock thin-section

人工智能 岩石薄片智能鉴定

(English Translation)

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Foreword

GB/Z 230-2026 is a national guiding technical document (GB/Z) 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.

It is under the responsibility of the Standardization Administration of China.

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1 Scope

Identifying minerals and textures in thin slices of rock is a long-established task in geology, and this guiding document deals with doing it intelligently, using artificial intelligence. Its title is Intelligent identification of rock thin-section, and it addresses the use of AI methods for identifying rock thin sections. The document is a GB/Z type, so it offers guidance rather than mandatory requirements.

Geological survey organizations, petroleum and mining companies, university and research laboratories, and developers of microscopy and image analysis software are the groups most likely to benefit. Practitioners can use it to understand how an AI-assisted identification workflow is expected to be organized, and vendors can use it to describe their systems in terms recognized nationally. The document was issued on 27 August 2026 by the national standardization administration. Its subject sits at the intersection of earth science and machine learning, and it is relevant to anyone building or buying tools for petrographic analysis in China, or following how national guidance extends AI into scientific and industrial laboratory practice.

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