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ICS 71.040.99
CCS N33

NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 20726-2025

Replacing GB/T 20726-2015

Microbeam analysis - Selected instrumental performance parameters for the specification and checking of energy-dispersive X-ray spectrometers (EDS) for use with a scanning electron microscope (SEM) or an electron probe microanalyser (EPMA)

微束分析 扫描电子显微镜（SEM）或电子探针显微分析仪（EPMA）用X射线能谱仪（EDS）主要性能参数及核查方法

(English Translation)

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Foreword

GB/T 20726-2025 is a recommended national standard (GB/T) of the People's Republic of China, issued on 29 August 2025 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 March 2026.

This edition replaces GB/T 20726-2015.

The document adopts an international standard (ISO or IEC).

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

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1 Scope

Energy-dispersive X-ray spectrometers are fitted to scanning electron microscopes and electron probe microanalysers to identify and quantify elements in a sample. This document belongs to the microbeam analysis field and addresses the main instrumental performance parameters used to specify such spectrometers, together with ways of checking them, as the Chinese title indicates.

It serves instrument manufacturers who publish performance specifications, laboratory managers who need a consistent basis for acceptance testing and periodic verification, and analysts in materials science, metallurgy, geology and failure analysis who must demonstrate that their equipment is performing as expected. Procurement teams can also use a common set of parameters when comparing spectrometers from different suppliers.

Issued on 29 August 2025, the standard becomes effective on 1 March 2026 and replaces GB/T 20726-2015. It is a recommended national standard and therefore voluntary unless a laboratory accreditation scheme, contract or internal quality procedure makes it a requirement.

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