

ICS 27.120.30

CCS F 46



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

GB/T 48215.3-2026

**Nuclear fuel technology - Alpha spectrometry - Part 3:
Determination of uranium 232 in uranium and its compounds**

核燃料技术 α 能谱法 第3部分：铀及其化合物中²³²U的测定

(English Translation)

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Foreword

GB/T 48215.3-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 September 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 April 2027.

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

Nuclear fuel technology relies on precise measurement of trace radionuclides, and this standard covers the determination of uranium 232 in uranium and its compounds by alpha spectrometry. It is Part 3 of a series of alpha-spectrometry methods for nuclear fuel materials. The intended users are radiochemistry laboratories at fuel fabrication and enrichment facilities, nuclear research institutes, safeguards and quality-assurance groups, and testing bodies that characterise uranium materials.

Because the isotope content of uranium materials affects handling, shielding and material acceptance, reliable analytical procedures are important for facilities that produce or receive such materials. The standard adopts an international standard and is a recommended national standard issued under the Standardization Administration of China. Such methods are applied before material is accepted or moved onward. It becomes effective on 1 April 2027.