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

GB/T 48215.1-2026

**Nuclear fuel technology - Alpha spectrometry - Part 1:
Determination of neptunium in uranium and its compounds**

核燃料技术 α 能谱法 第1部分：铀及其化合物中镎的测定

(English Translation)

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Foreword

GB/T 48215.1-2026 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

Part 1 of the series on alpha spectrometry in nuclear fuel technology addresses the determination of neptunium in uranium and its compounds. The intended readers are radiochemists and quality assurance staff at nuclear fuel facilities, research institutes, laboratories that support regulators, and testing organisations responsible for characterising uranium materials and confirming that trace actinide levels are known and documented.

A common national method is valuable for those who exchange samples or certify materials between organisations, since it gives them a shared basis for reporting results. The standard adopts an international standard. As a GB/T document it is recommended rather than compulsory. It sits alongside the other parts of the series, which handle different elements in the same type of material, and it becomes effective on 1 April 2027.