

ICS 77.120.99

CCS H 14



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

GB/T 18114.9-2025

Replacing GB/T 18114.9-2010

**Chemical analysis methods for rare earth concentrates - Part 9:
Determination of phosphorus pentoxide content**

稀土精矿化学分析方法 第9部分：五氧化二磷含量的测定

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Foreword

This document was issued on 1 August 2025 by the State Administration for Market Regulation and the Standardization Administration of the People's Republic of China, and has been in force since 1 February 2026.

It replaces GB/T 18114.9-2010.

The document is under the responsibility of the Standardization Administration of China.

Classification: ICS 77.120.99, CCS H 14.

1 Scope

GB/T 18114.9-2025 is the Chinese national standard covering phosphorus in a rare earth concentrate, reported as phosphorus pentoxide from a mass fraction of 0.10 per cent up to 30 per cent - the alkali fusion and hot water leach that brings the sample into solution, the bismuth molybdenum blue colour raised with ammonium molybdate and reduced with ascorbic acid, read at 700 nm, the inductively coupled plasma emission method offered as the quicker alternative, and the repeatability and reproducibility limits at low, medium and high content. The spectrophotometric method is the one named to settle a dispute. Part 9 of the series. It replaces GB/T 18114.9-2010, which carried that method alone. In force from 1 February 2026. It was issued on 1 August 2025 and has been in force since 1 February 2026, replacing GB/T 18114.9-2010. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

About this edition

GB/T 18114.9-2025 is the current edition. It was issued on 1 August 2025 and has been in force since 1 February 2026, replacing GB/T 18114.9-2010.

GB/T 18114.9-2010 has been superseded: a specification that still cites it is citing a withdrawn edition.

The interval between issue and effect is the transition period. It exists so that producers, laboratories and buyers can requalify products, revise procedures and use up documentation before the new text becomes the one that applies. The date on this page is the official one from the record of the Standardization Administration.

Classification and status

GB/T 18114.9-2025 is classified under ICS 77.120.99, in the field of metallurgy. ICS is the International Classification for Standards, the same scheme used by ISO and by the national bodies of most countries, which is what allows a Chinese standard to be placed beside its foreign counterparts on subject rather than on number.

Its Chinese Standard Classification code is CCS H 14. CCS is the domestic scheme, a letter for the sector and two digits for the subject within it, and it is the code by which the standard is filed and searched in China.

The GB/T prefix marks a recommended national standard. It is not, in itself, law: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it. In practice that covers most of the cases in which it will be read - a purchase specification, an inspection agreement or a certification scheme.

The document is under the responsibility of the Standardization Administration of China, which is the body that maintains it and that will answer a formal question about its interpretation.

How a Chinese national standard is set out

Chinese national standards are drafted to the rules of GB/T 1.1, which fixes the order in which a standard is set out. The document opens with a foreword recording the issuing bodies, the relationship to any previous edition and the technical committee responsible for it. Clause 1 is the scope. Clause 2 lists the normative references - the other standards that have to be applied together with this one, and without which its requirements cannot be met. Clause 3 gives the terms and definitions. The technical clauses follow: the requirements themselves, the test or measurement methods by which conformity is established, the inspection rules that say how a lot is sampled and judged, and, for a product standard, the provisions on marking, packaging, transport and storage. Annexes, normative or informative, come last.

What is delivered is the complete document in that order: every clause, every table, every figure and every annex of the Chinese original, with the same numbering, so that a reference to a clause number in a contract or a test report points to the same place in both

languages.

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