

ICS 77.080.01
CCS H11



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

GB/T 223.3-2026

Replacing GB/T 223.59-2008

**Iron, steel and alloy - Determination of phosphorus content -
Spectrophotometric method, titrimetric method and gravimetric
method**

钢铁及合金 磷含量的测定 分光光度法、滴定法和重量法

(English Translation)

Issued on: September 28, 2026

Implemented on: April 1, 2027

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

Foreword

GB/T 223.3-2026 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.

This edition replaces GB/T 223.59-2008.

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

It is under the responsibility of the China Iron and Steel Association.

Classification: ICS 77.080.01; CCS H11.

1 Scope

This recommended national standard deals with the determination of phosphorus content in iron, steel and alloys, and it lays out three analytical routes: a spectrophotometric method, a titrimetric method and a gravimetric method. Phosphorus is a closely watched residual or alloying element in ferrous metallurgy, so the document is aimed at the chemical analysis laboratories of steel mills, foundries, alloy producers, independent testing houses and receiving-inspection departments that need to report phosphorus consistently. Having several methods in one document lets a laboratory choose the technique that suits its sample type and equipment.

The document was issued on 28 September 2026 and takes effect on 1 April 2027. It replaces GB/T 223.59-2008. It is published under the responsibility of the China Iron and Steel Association and is relevant to anyone who must align phosphorus results with current Chinese practice for material certificates, supplier acceptance or dispute testing.