

ICS 77.080.01

CCS H 11



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

GB/T 223.93-2026

**Iron, steel and alloy - Determination of niobium content - PAR
spectrophotometric method**

钢铁及合金 铌含量的测定 PAR分光光度法

(English Translation)

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Foreword

GB/T 223.93-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 August 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 March 2027.

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

Classification: ICS 77.080.01; CCS H 11.

1 Scope

This standard specifies an analytical method for determining the niobium content of iron, steel and alloys, using PAR spectrophotometry. PAR is a colour-forming reagent, and the method relies on measuring light absorption to quantify niobium in a prepared sample solution. It belongs to the long-running GB/T 223 series of chemical analysis methods for iron, steel and alloys.

The users are testing laboratories at steel mills and foundries, independent inspection and certification bodies, alloy producers, research institutes, and buyers who verify material composition against specification. A published method gives laboratories a common procedure and supports comparable results between parties.

The document was issued on 28 August 2026 and takes effect on 1 March 2027. It is a recommended national standard (GB/T), so it is voluntary unless a contract or material specification requires it. Laboratory staff should consult the full text for reagents, procedure and calculation details.