

ICS 77.100
CCS H11

YB

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

YB/T 4582.11-2026

**Ferrosilicon nitride - Determination of nitrogen content -
Thermal conductimetric method after fusion in a current of inert
gas**

氮化硅铁 氮含量的测定 惰性气体熔融热导法

(English Translation)

Issued on: July 15, 2026

Implemented on: February 1, 2027

Issued by: Ministry of Industry and Information Technology

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Foreword

YB/T 4582.11-2026 is a recommended industry standard of the People's Republic of China in the Ferrous Metallurgy sector, approved and issued by the Ministry of Industry and Information Technology on 15 July 2026, with effect from 1 February 2027.

It is administered by the National Technical Committee for Pig Iron and Ferroalloys Standardization.

Classification: ICS 77.100; CCS H11.

1 Scope

YB/T 4582.11-2026 specifies a method for determining the nitrogen content of ferrosilicon nitride by thermal conductimetry after fusion in a current of inert gas. The sample is melted in an inert gas stream, the nitrogen is released, and its amount is measured by a thermal conductivity detector. The method applies to the determination of nitrogen in ferrosilicon nitride, with a measuring range (mass fraction) of 20.00% to 40.00%.

It is used by laboratories of ferroalloy producers, steelmakers who buy ferrosilicon nitride as an alloying addition, and independent testing laboratories that check delivered material. The standard is voluntary, as the /T in its code indicates. It was approved by the Ministry of Industry and Information Technology, issued on 15 July 2026 and takes effect on 1 February 2027. It is a new standard.