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ICS 77.100
CCS H11

YB

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YB/T 6027.6-2025

(Analysis for ferromanganese, manganese-silicon and manganese - Part 6: Determinationof effective component contents of manganese, silicon, phosphorus, carbon and sulfur - X-ray fluorescence spectrometric method by equivalent fused casting sample preparat

锰铁、锰硅合金及金属锰分析方法第6部分：锰、硅、磷、碳、硫有效组分含量的测定等价熔融浇铸X射线荧光光谱法和火花源原子发射光谱法

(English Translation)

Issued on: December 17, 2025 **Implemented on: July 1, 2026**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yb-t-6027-6-2025

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1 Foreword

YB/T 6027.6-2025 was issued by Ministry of Industry and Information Technology on 17 December 2025 and has been in force since 1 July 2026.

It is one of 3 parts of the YB/T 6027 series.

The YB/T prefix marks a recommended standard. It is not law in itself: 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.

2 Scope Preview

This standard specifies the determination of the effective component content of manganese, silicon, phosphorus, carbon, and sulfur in ferromanganese, manganese-silicon alloys, and metallic manganese using equivalent fusion casting X-ray fluorescence spectrometry and spark discharge atomic emission spectrometry. This standard is applicable to the determination of the effective component content of manganese, silicon, phosphorus, carbon, and sulfur in ferromanganese, manganese-silicon alloys, and metallic manganese.

YB/T 6027.6-2025 falls under ICS 77.100, in the field of metallurgy.

This catalogue holds 971 other YB/T standards in that field.

In this catalogue, YB/T standards carry edition years from 1980 to 2026.

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3 About this standard

Sector: Ferrous Metallurgy Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Other parts of this standard:

YB/T 6027-2022 - Determination of ferromanganese, manganese silicon alloy, metal manganese calcium content by flame atomic absorption spectrometry

YB/T 6027.7-2025 - Ferromanganese, Ferromanganese-silicon and manganese metal - Determination of nikel content - Flame atomic absorption spectrometric method

Standards on related subjects:

GB/T 5686.5-2023 - Ferromanganese,ferromanganese-silicon,nitrogen-bearing ferromanganese and manganese metal-Determination of carbon content-The Infrared absorption method,the gasometric method,the gravimetric method and the coulometric method

GB/T 5686.4-2022 - Ferromanganese, ferromanganese-silicon, nitrogen-bearing ferromanganese and manganese metal-Determination of phosphorus content-Molybdenum blue spectrophotometric method and bismuth phosphomolybdate blue spectrophotometric method

GB/T 5686.7-2022 - Ferromanganese,ferromanganese-silicon,nitrogen-bearing ferromanganese and manganese metal-Determination of sulfur content-Infrared absorption method and combustion-neutralization method

5 Classification and status

International classification (ICS): 77.100

Chinese Standard Classification (CCS): H 11

Prefix YB/T: recommended standard.

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