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YB

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YB/T 4907-2021

Ferromanganese, manganese-silicon alloy and manganese - Determination the content of manganese, silicon, iron and phosphorous - The X-ray fluorescence spectrometry method

锰铁、锰硅合金和金属锰 锰、硅、铁、磷含量的测定 波长色散X射线荧光光谱法

(English Translation)

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YB/T 4907-2021 is issued by Ministry of Industry and Information Technology.

This standard was proposed by China Iron and Steel Industry Association.

This standard is under the jurisdiction of National Technical Committee on Pig Iron and Iron Alloy of Standardization Administration of China (SAC/TC 318).

Warning--Persons using this standard shall be familiar with normal laboratory practice. This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

2 Scope Preview

This standard specifies the determination of the content of manganese, silicon, iron and phosphorous in ferromanganese, manganese-silicon alloy and manganese metal by the X-ray fluorescence spectrometry method (casting glass sheet method). This standard is applicable to the determination of the content of manganese, silicon, iron and phosphorous in ferromanganese, manganese-silicon alloy and manganese metal. See Table 1 for the determination range of each element. Table 1 Element and its determination range Analytical element Determination range (mass fraction)/% Mn Si Fe P 60.00-98.00 0.15-28.00 1.50-23.00 0.010-0.450

YB/T 4907-2021 is filed under Chinese Standard Classification H11, in the field of

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metallurgy.

This catalogue holds 1,116 other YB/T standards without an ICS number.

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

3 Normative references

GB/T 4010 - Ferroallys sampling and preparation of samples for chemical analysis

GB/T 6379.1 - Accuracy (trueness and precision) of measurement methods and results-Part 1: General principles and definitions

GB/T 6379.2 - Accuracy (trueness and precision) of measurement methods and results-Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method

GB/T 6682 - Water for analytical laboratory use-Specification and test methods

GB/T 8170 - Rules of rounding off for numerical values & expression and judgment of limiting values

GB/T 15000.3 - Directives for the work of reference materials (3)-Reference materials-General and statistical principles for certification

GB/T 16597 - Analytical methods of metallurgical products-General rule for X-ray fluorescence spectrometric methods

GB/T 28372 - Ferroalloys-Sampling and preparation of samples-General rules

YB/T 082 - Specification for certified reference materials for metallurgical products analysis

4 About this standard

Sector: Ferrous Metallurgy Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 8 pages (approximate)

Chinese original: about 11,149 characters

5 Related standards

Standards on related subjects:

GB/T 5686.2-2022 - Ferromanganese, ferromanganese-silicon, nitrogen-bearing ferromanganese and manganese metal-Determination of silicon content-Molybdenum blue spectrophotometric method, silicon potassium fluoride titrimetric method and perchloric acid dehydration gravimetric method

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GB/T 4336-2016 - Carbon and low-alloy steel-Determination of multi-element contents-Spark discharge atomic emission spectrometric method (routine method)

GB/T 4701.1-2009 - Ferrotitanium - Determination of titanium content - The ammonium ferric sulfate titration method

YB/T 4908.3-2021 - Vanadium aluminum alloy Determination of aluminum content Barium salt strong alkali separation-EDTA titration method

YB/T 4908.2-2021 - Vanadium aluminum alloy-Determination of silicon, iron, phosphorus, boron, chromium, nickel, tungsten, copper, manganese, and molybdenum content-inductively coupled plasma atomic emission spectrometry

YB/T 4908.1-2021 - Vanadium aluminum alloy Determination of vanadium content Ammonium persulfate oxidation-ferrous ammonium sulfate titration method

6 Classification and status

Chinese Standard Classification (CCS): H 11

Prefix YB/T: recommended standard.

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