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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 3211-2023

Replacing GB/T 3211-2008

Metal chrome

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1.Structure and Drafting Rules of Standardization Documents"

Drafting.

This document replaces GB/T 3211-2008 "Metal Chromium". Compared with GB/T 3211-2008, except for structural adjustments and editorial changes

In addition, the main technical changes are as follows.

a) Added metal chromium grades (see 4.1.1);

b) The chemical composition of some metallic chromium grades has been changed (see 4.1.2, 3.1.2 of the.2008 edition);

c) The chemical analysis methods of some elements of metallic chromium have been changed (see 5.2, 4.2 of the.2008 edition);

d) The types of metallic chromium packaging items have been changed (see 7.1, 6.1 of the.2008 edition).

This document is modified to adopt ISO 10387.1994 "Metal Chromium Specifications and Delivery Conditions".

Compared with ISO 10387.1994, this document has many structural adjustments. A list of structure number changes between the two files is attached.

Record A.

Compared with ISO 10387.1994, this document has many technical differences. Vertical text is used in the outer margin of the involved clauses.

Single lines (|) are marked. A list of these technical differences and their causes is provided in Appendix B.

The following editorial changes have been made to this document.

The name of this document is changed from "Technical Delivery Conditions for Metal Chromium" to "Metal Chromium".

Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the requirements, test methods, inspection rules, packaging, storage and transportation, marking and quality certificates for metallic chromium.

This document applies to chromium metal produced by thermite method.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations

For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to

this document.

GB/T 3650 General provisions for acceptance, packaging, storage and transportation, marking and quality certificates of ferroalloys

GB/T 4010 Collection and preparation of samples for chemical analysis of ferroalloys [ISO 4552 (all parts)]

Note. GB/T 4010-2015 Collection and preparation of samples for chemical analysis of iron alloys (ISO 4552-1.1987, ISO 4552-2.1987, MOD).

GB/T 4702.2 Determination of metallic chromium and silicon content perchloric acid gravimetric method

GB/T 4702.3 Determination of metallic chromium and phosphorus content bismuth phosphorus molybdenum blue spectrophotometry

GB/T 4702.4 Determination of metallic ferrochromium content by disodium ethylenediaminetetraacetate titration and flame atomic absorption spectrometry

GB/T 4702.5 Determination of metallic chromium and aluminum content by disodium ethylenediaminetetraacetate titration and flame atomic absorption spectrometry

GB/T 4702.6 Determination of metallic ferrochromium, aluminum, silicon and copper content by inductively coupled plasma atomic emission spectrometry

GB/T 4702.7 Determination of metallic chromium nitrogen content by distillation and

separation - Nessler reagent spectrophotometry

GB/T 4702.8 Methods for chemical analysis of metallic chromium - distillation - determination of arsenic content by molybdenum blue spectrophotometry

GB/T 4702.9 Chemical analysis method for metallic chromium Determination of antimony content by crystal violet spectrophotometry

GB/T 4702.10 Methods for chemical analysis of metallic chromium - Determination of copper content by copper reagent spectrophotometry

GB/T 4702.11 Chemical analysis method for metallic chromium Determination of tin content by alizarin violet spectrophotometry

GB/T 4702.14 Chemical analysis method for metallic chromium - Determination of carbon content by infrared absorption method

GB/T 4702.15 Determination of metallic chromium, lead, tin, bismuth, antimony and arsenic content by plasma mass spectrometry

GB/T 4702.16 Determination of metallic chromium and sulfur content by infrared absorption method and combustion neutralization titration method

GB/T 4702.17 Determination of oxygen, nitrogen and hydrogen content in metallic chromium by inert gas fusion infrared absorption method and thermal conductivity method

GB/T 8170 Numerical rounding rules and representation and determination of limit values

GB/T 13247 Sampling and testing methods for particle size of ferroalloy products

GB/T 14984 (all parts) Ferrous alloy terminology [ISO 8954 (all parts)]

Note. GB/T 14984.1-2010 Ferroalloy terminology Part 1.Materials (ISO 8954-1.1990, MOD);

GB/T 14984.2-2010 Ferroalloy terminology Part 2.Sampling and preparation (ISO 8954-2.1990, MOD);

GB/T 14984.3-2010 Ferroalloy terminology Part 3.Screening (ISO 8954-3.1990, MOD).

3 Terms and definitions

The terms and definitions defined in GB/T 14984 (all parts) apply to this document.