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

GB/T 24228-2009

**Chromium ores and concentrates -- Methods of chemical
analysis -- General instruction**

铬矿石和铬精矿 化学分析方法 通则

(English Translation)

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Foreword

This revised standard adopts ISO 6629. 1981 "Chromium ores and concentrates - Methods General" (in English).

This standard and ISO 6629. 1981 compared to the main editorial changes made the following.

--- "2 Normative references" in place of national standards with international standards corresponding.

The standard proposed by China Iron and Steel Association.

This standard by the National Standardization Technical Committee of pig iron and ferroalloy.

This standard was drafted. Tianjin People's Republic of China Exit Inspection and Quarantine, metallurgical industry Information Standards Institute, Ningbo Inspection and Phytophthora Institute of Science and Technology.

1 Scope

This standard specifies the Chromium ores and concentrates - General rules.

This standard applies to Chromium ores and concentrates - Methods for chemical analysis standards, amendments and use.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including

errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 24220 chrome ore samples were analyzed for moisture intrudes Gravimetric method (GB/T 24220-2009, ISO 6129. 1981, MOD)

3.1 Reagents

3.1.1

All reagents used shall be of recognized analytical grade reagents.

3.1.2

Reagent preparation and analysis of the entire process should use distilled or deionized water, determination of trace elements should be used during the second steam Distilled or deionized water.

3.1.3

flask was diluted to the mark, the temperature should be at 20 °C.

3.1.4

Unless otherwise specified, the temperature of hot water or hot solution refers to the 70 °C ~ 80 °C; the temperature of warm water or warm solution refers to the 40 °C ~ 60 °C.

3.1.5

by the concentration of the liquid reagent prepared in a non-standard solution (V_p V_p 1 + 2), is about a specific volume of solution added to 1 volume V_p Solvent V_p 2.

3.1.6

concentration was expressed as follows.

- a) the mass fraction. mass (g) per 100g solution components as a percentage (%) indicates;
- b) concentration. mass per liter of solution components (g), in grams per liter (g/L);
- c) the volume fraction. volume of solution per 100mL component (mL), percentage (%) represented;
- d) the concentrations of the components. the amount of substance per liter of solution components, expressed in moles per liter (mol/L).

3.1.7

Calibration standard solution should be at least three replicates.

3.2 Instrument

3.2.1

Weighing Analytical Balances used precision level not less than three, the sense should reach 0.1mg. Balance and weight regularly by qualified Quality measurement test of the department.

3.2.2

Volumetric Apparatus (flask, burette, pipette, etc.) should be used in the national standard A-class products, according to relevant national regulations for calibration.

3.2.3

Select measuring the absorbance of the cuvette, to meet the measurement requirements.

3.3 Sample

Chemical analysis shall be air-dried or sample at 105 °C ~ 110 °C dried sample.

3.4.1 Analysis of sample number

Determination of chromium and chromium ore concentrate specific elements should be analyzed simultaneously sample two or three samples.

Should repeat the sample analysis results obtained arithmetic mean value as the final result. The poor results obtained shall not exceed the relevant standard clauses