

Translated English of Chinese Standard: YS/T820.26-2012

www.ChineseStandard.net → Buy True-PDF → Auto-delivery.

Sales@ChineseStandard.net

YS

NONFERROUS METAL INDUSTRY STANDARD
OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 73.060

D 04

YS/T 820.26-2012

Methods for chemical analysis of laterite nickel ores -

Part 26: Determination of loss on ignition -

Gravimetric method

红土镍矿化学分析方法

第 26 部分：灼烧减量的测定 重量法

Issued on: November 7, 2012

Implemented on: March 1, 2013

Issued by: Ministry of Industry and Information Technology of PRC

Table of Contents

Foreword.....	3
1 Scope	6
2 Method summary.....	6
3 Instruments.....	6
4 Samples	6
5 Analysis steps	6
6 Calculation of analysis results	7
7 Precision.....	7
8 Test report	8

Foreword

This part is drafted in accordance with the provisions of GB/T 1.1-2009.

YS/T 820-2012 "Methods for chemical analysis of lateritic nickel ore" is divided into 26 parts:

- Part 1: Determination of nickel content. Flame atomic absorption spectrometry;
- Part 2: Determination of nickel content. Dimethylglyoxime spectrophotometry;
- Part 3: Determination of total iron content. Potassium dichromate titration;
- Part 4: Determination of phosphorus content. Phosphorus molybdenum blue spectrophotometry;
- Part 5: Determination of cobalt content. Flame atomic absorption spectrometry;
- Part 6: Determination of copper content. Flame atomic absorption spectrometry;
- Part 7: Determination of calcium and magnesium content. Flame atomic absorption spectrometry;
- Part 8: Determination of silica content. Potassium silico-fluoride titrimetric method;
- Part 9: Determination of scandium and cadmium contents. Inductively coupled plasma mass spectrometry;
- Part 10: Determination of calcium, cobalt, copper, magnesium, manganese, nickel, phosphate and zinc content. Inductively coupled plasma atomic emission spectrometry;
- Part 11: Determination of fluorine and chlorine contents. Ion chromatography;
- Part 12: Determination of manganese content. Flame atomic absorption spectrometry;
- Part 13: Determination of lead content. Flame atomic absorption spectrometry;

Methods for chemical analysis of laterite nickel ores -

Part 26: Determination of loss on ignition -

Gravimetric method

1 Scope

This part of YS/T 820 specifies the gravimetric method for the determination of loss on ignition (LOI) in laterite nickel ore.

This part applies to the determination of loss on ignition in laterite nickel ore. The measurement range is 6.00%~14.00%.

2 Method summary

Ignite the pre-dried sample to a constant weight at 1000 °C; calculate the loss on ignition (LOI) according to the reduced mass of the sample.

3 Instruments

3.1 High-temperature furnace: the temperature can be controlled at 1000 °C±50 °C.

3.2 Porcelain crucible: make its weight constant at 1000 °C before use.

4 Samples

The particle size of the samples shall be less than 160 µm; bake them in an oven at 105 °C~110 °C for 2 h, and cool them to room temperature in a desiccator.

5 Analysis steps

5.1 Sample

Weigh 1.00 g sample; the weight shall be accurate to 0.0002 g.

5.2 Number of measurements

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----