

Translated English of Chinese Standard: GB/T25949-2010

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

Sales@ChineseStandard.net

GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 73.060.40

H 30

GB/T 25949-2010 / ISO 6140:1991

Aluminum Ores – Preparation of Samples

(ISO 6140:1991, IDT)

铝土矿 样品制备

Issued on: December 23, 2010

Implemented on: September 1, 2011

Issued by: General Administration of Quality Supervision, Inspection and Quarantine;

Standardization Administration of the People's Republic of China.

Table of Contents

Foreword	3
1 Scope	4
2 Normative References	4
3 Terms and Definitions	4
4 Fundamentals of Sample Preparation	5
5 Precision of Sample Preparation	15
6 Bias in Sample Preparation	15
7 Preparation of Samples for the Determination of Total Moisture	15
8 Preparation of Samples for Chemical Analysis	16
9 Preparation of Samples for Physical Testing	17
10 Packing and Labelling of Samples	18
Annex A (Normative) Sample Preparation Diagrams	20
Annex B (Informative) Examples of Mechanical Mixers	22
Annex C (Informative) Mechanical Sample Dividers	24
Annex D (Informative) Manual Sampling Implements	28
Annex E (Informative) Examples of Riffles	30
Annex F (Informative) Particle Size Reduction Equipment	31

Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard used translation method to equivalently adopt ISO 6140:1991 *Aluminum Ores – Preparation of Samples*.

This Standard's Annex A is normative; while Annexes B, C, D, E, and F are informative.

This Standard shall be under the jurisdiction of National Technical Committee on Nonferrous Metals of Standardization Administration of China (SAC/TC 243).

Drafting organizations of this Standard: Aluminum Corporation of China Limited, Shandong Branch; and China Nonferrous Metals Industry Standards, Metrology and Quality Research Institute.

Chief drafting staffs of this Standard: Shao Jing, Jiang Tao, Wang Zhaowen, Teng Xiaofeng, Sun Hongxi, Zhong Yimei, and Liu Qian.

Aluminum Ores – Preparation of Samples

1 Scope

This Standard specifies methods of treatment of gross samples and subsamples of aluminum ores with a view to the preparation of samples for the determination of moisture, chemical analysis and physical testing.

This Standard is applicable to all aluminum ores.

2 Normative References

The following documents are essential to the application of this Document. For the dated documents, only the versions with the dates indicated are applicable to this Document; for the undated documents, only the latest version (including all the amendments) is applicable to this Document.

GB/T 25945-2010 Aluminum ores - Sampling procedures (ISO 8685:1992, IDT)

GB/T 25947-2010 Aluminum ores - Determination of the moisture content of bulk material (ISO 9033:1989, IDT)

GB/T 25950-2010 Aluminum ores - Experimental determination of the heterogeneity of constitution (ISO 6138:1991, IDT)

ISO 565:1990 Test sieves - Metal wire cloth, perforated metal plate and electroformed sheet - Nominal sizes of openings

3 Terms and Definitions

For the purposes of this Standard, the following terms and definitions apply.

3.1 Chemical analysis sample

The sample crushed to pass a sieve aperture of 150 μm used for the determination of chemical characteristics of the aluminum ore.

3.2 Division

The process of decreasing the sample mass (without modification of the particle size of the constituent parts) where a representative part of the sample is retained while rejecting the

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 -----