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YS

**NONFERROUS METALS INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YS/T 409-2012

Replacing YS/T 409-1998

**Specification for certified reference materials of non-ferrous
metal product for analysis**

有色金属产品分析用标准样品技术规范

(English Translation)

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Foreword

This standard follows the GB/T 15000 series of standards for the work of YS/T 409-1998 revised.

This standard replaces the YS/T 409-1998 "non-ferrous metal product samples analyzed by standard technical specifications." Compared with this standard YS/T 409-1998, the main changes are as follows.

- Modify the terms and definitions;
- Increasing the standard classification of non-ferrous metal samples;
- Increasing the preparation process section component analysis using standard sample preparation procedures;
- Modify the uniformity of the test section of a predetermined number of samples;
- Increasing the uniformity of the test described in the order;
- Increasing the content uniformity test methods (appendix form);
- Increase the measurement repeatability poor homogeneity test case;
- Increasing the uniformity of the contents of the bottle;
- Increase the information content uniformity test results should be given;
- Increase the stability of the test method, timing, sampling and other content;
- Increase the stability of the test results to determine the validity and determine the content (in the form of an appendix);
- Increased specific provisions to extend the period of validity;
- Increased its research and development unit, the unit value of the qualification requirements and methods of valuation and valuation requirements for personnel;

- Increase the content value statistical processing method (in the form of an appendix);
- Modify the technical requirements of the packaging;
- Increasing the format and content requirements of the standard sample certificate (appendix form).

This standard by the national standard sample technical committee Nonferrous Metals Technical Committee (SAC/TC118/SC3) centralized.

This standard was drafted. Technical and Economic Research Institute of Nonferrous Metals.

1 Scope

This standard specifies the composition of non-ferrous metal product samples analyzed by standard selection, processing, homogeneity testing, stability testing, analysis set Value, packaging, transportation, storage and certification requirements.

This standard applies to the development of non-ferrous metal products component analysis using standard solid and liquid samples. Development of other types of standard samples may be refer to this standard.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 8170 repair value expressed about the rules and limit values and judgment General principles and statistical methods GB/T 15000.3-2008 standard samples for the work (3) standard sample set value

3 Terms and Definitions

The following terms and definitions apply to this document.

Non-ferrous metal standard samples certifiedreferencematerialsofnon-ferrousmetalproduct
Adopt effective programs on metrology measurement with one or more characteristic values determined and sufficiently uniform and stable non-ferrous metals Related Material, after technical evaluation together with the certificate, the certificate includes the characteristic values and their uncertainty and metrological traceability statement.

Non-ferrous national standard sample
certifiedreferencematerialsofnon-ferrousmetalproductcertifiedby
StandardizationAdministrationofthePeople'sRepublicofChina National Standardization Management Commission authorized by the manufacturer, the approval of non-ferrous

metal standard samples released.

Non-ferrous metals industry standard sample
certified reference materials of non-ferrous metal product certified by
Ministry of Industry and Information Technology of the People's Republic of China Authorized the
production by the Ministry of Industry and Information Technology of the People's Republic
of China, approved, non-ferrous metal standard samples released.

4 Category, nonferrous metals standard sample

4.1

divided by Features standard sample composition analysis and performance testing
standard samples.

4.2

According to the shape is divided into solid and liquid standard sample. Standard samples
having generally solid block, rod, granule, chip, powder and the like.

4.3-per-use is divided into single-point standard samples, reference materials, calibration
drift with the standard sample.

4.3.1

standard sample applies to a single point or a single grade standard samples for a range of
characteristics.

4.3.2

sample is a series of standards covering a wide range of characteristic values, the standard
sample applies to a variety of grades or grades of material analysis group