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

YS/T 441.4-2014

Replacing YS/T 441.4-2001

**Management rules of nonferrous metals balance. Part 4: Tin
enrichment and metallurgy
(English Translation)**

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Foreword

YS/T 441-2014 "non-ferrous metal balance management practices" is divided into five sections.

- Part 1. Copper smelting mineral processing;
- Part 2. lead smelting mineral processing;
- Part 3. zinc smelting mineral processing;
- Part 4. tin smelting mineral processing;
- Part 5. gold, silver smelting.

This section is YS/T Part 4 441.

This section drafted in accordance with GB/T 1.1-2009 given rules.

The partial replacement of YS/T 441.4-2001 "balance of non-ferrous metal smelting section Practices tin beneficiation", and this part of YS/T 441.4-2001 Compared to the main changes are as follows.

Mineral Processing Section --- term increase of "ore", "concentrate", "tailings" and the "mine," "yield", "recovery" and the definition of smelting section Added "metal recovery", "smelting recovery" and other definitions;

- Of "stewardship" relevant content has been simplified;
- Further improve the "flow chart dressing materials" and "smelting materials flowchart" made some modifications;
- According to the actual production of the format and content of Appendix A balance sheet metal were perfect.

The non-ferrous metal part by the National Standardization Technical Committee (SAC/TC243) centralized.

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This part of the standard replaces the previous editions are.

--- YS/T 441.4-2001.

Non-ferrous metal balance management practices Part 4. Tin smelting dressing

1 Scope

This section YS/T 441 specifies the terms of tin smelting metal beneficiation balance management, responsibilities, metal balance calculation formulas, metal the method of preparation of the balance sheet and format.

This section applies to mineral processing smelting tin and its subsidiary products manufacturing enterprises.

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 728 tin ingots

GB/T 1819 (all parts) Methods for chemical analysis of tin concentrates GB/T 3260 (all parts), chemical analysis of tin GB/T 8012 casting Xiqianhanliao GB/T 10574 (all parts), chemical analysis of tin Method GB/T 14260 heavy nonferrous metals flotation concentrates in bulk sampling and sample preparation General YS/T 339 tin concentrates

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Mineral Processing Section

3.1.1

Ore rawminerals

To the ore concentrator from stope. Including other materials into the beneficiation process.

3.1.2

Ore concentrates

After the ore or raw material sorting, useful components enriched products less impurities.

3.1.3

Tailings

After sorting ore or raw material, the content of useful components with little or no further processing of the product value.

3.1.4

Middling middle-minerals in the beneficiation process, in addition to concentrates or tailings, are still part of the semi-finished products, the need for further processing, the product referred to in this part of the mine.