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

YS/T 441.5-2014

Replacing YS/T 441.5-2001

**Management rules of nonferrous metals balance. Part 5: Gold
and silver 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 5 441.

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

The partial replacement of YS/T 441.5-2001 "non-ferrous metal smelting gold and silver part of the norm." This portion of YS/T 445.1-2001 Compared to the main changes are as follows.

- Updated the reference standard;
- Metal balance management responsibility has been revised to delete part of the duties and powers;
- Modified semi-metal recovery, the amount of dry, intermediate materials, inventory and other definitions, delete the whole plant smelting recovery, the new step back Definition of yield, total recovery smelting, metal balance of terms;
- Further improve the material flow chart of smelting process;
- According to the actual situation on the balance sheet metal format has been improved.

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

This section is responsible for drafting units. China Nonferrous Metals Industry Standards

and Metrology Institute for Quality.

This section is drafted. Daye Nonferrous Metals Co., Ltd., Henan Yuguang Gold & Lead Co., Ltd.

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1 Scope

This section YS/T 441 provides for non-ferrous metals as gold, silver rule of term portion of the metal balance management, responsibilities, metal balanced scorecard Calculation formula, the balance sheet metal preparation methods and formats.

This section is applicable to non-ferrous metallurgy tails anode mud as raw gold, silver smelting company and its subsidiary products.

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 4134 ingot

GB/T 4135 Silver

GB/T 11066 (all parts) Methods for chemical analysis of gold GB/T 11067 (all parts), chemical analysis of silver GB/T 14260 heavy nonferrous metals flotation concentrates in bulk sampling and sample preparation General YS/T 87 copper, lead anode slime sampling and sample preparation method

3 Terms and Definitions

The following terms and definitions apply to this document.

Finished finishedproducts Within the company has completed the whole production process, the test meet the quality standards and storage procedures after finishing products.

Semi-finished products semi-finished the companies have completed within one or several production phases, comply with the requirements on product quality, but needs the other students in the enterprise Production stage smelting or further processed products.

In producing-finished products is in the smelting process, has not yet reached the finished or semi-finished products (including smelting though completed, but still have yet to test or

inspection is completed no storage products). WIP between raw materials and semi-finished products, semi-finished products and semi-finished products, semi-finished and finished products.

By-products Smelting process output "three wastes" (waste gas, waste water, waste) further utilization (smelting or processing) to produce other products.

Returned goods recycling products Metal smelting process, this process does not reach the output of finished or semi-finished quality requirements still need to return to this step metal reprocessing materials.