

ICS 73.060
CCS D 42

YS

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

YS/T 452-2013

Replacing YS/T 452-2002

Lead and zinc bulk concentrate

混合铅锌精矿

(English Translation)

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Foreword

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

Instead of the standard YS/T 452-2002 "mixed lead and zinc concentrates." Compared with YS/T 452-2002, the main changes are as follows.

--- Increased mercury limit requirements;

--- Increased natural radioactivity limit requirements;

--- Three and four items from the product Cd content of not more than 0.35% and 0.40%, respectively, modified to not more than 0.40% and 0.50%;

--- As four product content of not more than 0.45% by the modification of not more than 0.40%;

--- SiO₂ content is made not more than 4.5%, 5.0%, 5.5%, 6.0%, respectively, modified to not more than 4.0%, 4.5%, 5.0%, 5.5%;

--- Fe content of from 5% to 14% revised to 6% to 15%;

--- Removed Cu limited requirements;

--- Modification of the test batch;

--- Delete test items Terms of contents;

--- Sample prepared by the three revised to four, the addition of a sample arbitration; relating to international trade while the retention time of the sample were Regulations;

--- Determination of test results has been modified.

This standard by the national non-ferrous metals Standardization Technical Committee (SAC/TC243) centralized.

1 Scope

This standard specifies the mixing of lead and zinc concentrate requirements, test methods, inspection rules, packaging and transport and contract (or purchase order) content.

This standard applies to the mixed sulphide ore flotation of lead and zinc concentrates obtained, also apply to other methods selected to be a mixture of lead and zinc concentrates.

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 GB/T 14262 flotation lead concentrates in bulk sampling and sample preparation method GB 20424 heavy metal concentrate product specification limits of harmful elements GB 20664 non-ferrous minerals natural radioactivity limits YS/T 461 (all parts) mixing chemical analysis of lead and zinc concentrates

3.1 Categories

Lead and Zinc concentrate is divided into four grades according to chemical composition. a product, two products, three products, four products.

3.2 Chemical composition

3.2.1

Lead and Zinc concentrate chemical composition shall comply with the requirements in Table 1.

Table 1 chemical composition Lead and Zinc Concentrate

grade

Master grade mass fraction /%, no less than the impurity mass fraction /%, not more than
 Pb Zn Zn Pb S Fe As Cd SiO₂ First Grade 153 655 Second Grade 153 450 Three products
 153 248 Four products 142 845 25 ~ 326 ~ 15 0.30 0.20 4.0 0.35 0.30 4.5 0.40 0.40 5.0
 0.40 0.50 5.5

3.2.2

Lead and Zinc concentrate gold, silver as valuable elements shall be submitted to the analysis results.

3.2.3

Lead and Zinc concentrate mercury content should meet the requirements of GB 20424.

3.2.4

Lead and Zinc concentrate the natural radioactivity limits shall comply with the provisions of GB 20664.

3.2.5

the same batch of mixed lead and zinc concentrates should be mixed, Pb Zn main quality difference should not exceed 3%.

3.3 Water

Lead and Zinc concentrate moisture should be less than 12%, the winter should not exceed 8%.