

ICS 73.060
CCS D40



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 14352.12-2010

Replacing GB/T 14352.12-1993

**Methods for chemical analysis of tungsten ores and
molybdenum ores - Part 12: Determination of silver content**

钨矿石、钼矿石化学分析方法 第12部分：银量测定

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Foreword

GB/T 14352 "tungsten ores and molybdenum ores chemical analysis methods," a total of 18 parts.

- Part 1. Determination of tungsten;
- Part 2. Determination of molybdenum;
- Part 3. Determination of copper content;
- Part 4. Determination of lead content;
- Part 5. Determination of the amount of zinc;
- Part 6. Determination of cadmium content;
- Part 7. Determination of cobalt content;
- Part 8. Determination of nickel content;
- Part 9. Determination of sulfur content;
- Part 10. Determination of arsenic content;
- Part 11. Determination of the amount of bismuth;
- Part 12. determination of silver;
- Part 13. Determination of tin;

1 Scope

GB/T 14352.12-2010 is the Chinese national standard on methods for chemical analysis of tungsten ores and molybdenum ores - part 12: determination of silver content, in the field of mining and minerals. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 10 November 2010 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and

has been in force since 1 February 2011. Classification: ICS 73.060, CCS D40. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This section GB/T 14352 provides for tungsten ores and molybdenum ores Determination of silver content. This Part applies to tungsten ores and molybdenum ores - Determination of silver content. Measuring range. 0.5µg/g ~ 20µg/g of silver.

2 Normative references

The following documents contain provisions which, through reference

GB/T 14352 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section. Laboratory use specifications and test methods GB/T 6682 Analysis

GB/T 14505 method for chemical analysis of rocks and ores General rules and regulations Principle

3 After the sample with hydrochloric acid, nitric acid, hydrofluoric acid, perchloric acid decomposition in hydrochloric acid - potassium iodide - ascorbic acid medium, methyl isobutyl ketone and Crafts After take separated and the organic phase direct flame atomic absorption measurements, to calculate the amount of silver.

4 Reagents

Unless otherwise stated in this section are consistent with the use of analytical reagent and GB/T 6682 analytical laboratory use in the analysis.

4.1 hydrochloride (rho1.19g/mL). Nitrate 4.2 (rho1.42g/mL).

4.3 hydrofluoric acid (rho1.13g/mL), Warning. Toxic and corrosive hydrofluoric acid, the operation should wear gloves to prevent skin contact.

4.4 perchloric acid (rho1.67g/mL), Warning. explosive materials, careful

4.5 methyl isobutyl ketone.

4.6 hydrochloride (11).

4.7 hydrochloride (19).

4.8 perchloric acid (11).

4.9 mixed reagent solution. Weigh 30g of potassium iodide, 20g ascorbic acid with hydrochloric acid (4.7) dissolved and diluted to 100mL.

4.10 Silver standard solution.

a) silver standard stock solution [$\rho(\text{Ag}) = 100.0\mu\text{g/mL}$]. Weigh 0.1575g of silver nitrate (excellent pure), placed in 200mL beaker Added hydrochloric acid (4.6) is dissolved, moved with hydrochloric acid (4.6) 1000mL volumetric flask, and dilute hydrochloric acid to use this scale, shake; NOTE. Silver nitrate pre-drying at $105\text{ }^{\circ}\text{C} \sim 110\text{ }^{\circ}\text{C}$ 2h.

b) silver standard solution [$\rho(\text{Ag}) = 10.0\mu\text{g/mL}$]. dispensing 20.00mL silver standard stock solution [4.10a)], set 200mL