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Copper, lead and zinc sulfide concentrates — Determination of cadmium —

Part 1: Flame atomic absorption spectrometric method

Concentrés de sulfure de cuivre, de plomb et de zinc — Dosage du cadmium —

Partie 1: Spectrométrie d'absorption atomique dans la flamme

Reference number
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Contents

Page

Foreword ... **iv**

1 Scope ... **1**

2 Normative reference ... **1**

3 Terms and definitions ... **1**

4 Principle ... **2**

5 Reagents ... **2**

6 Apparatus ... **3**

7 Samples ... **3**
7.1 Laboratory sample ... 3
7.2 Test sample ... 3
7.3 Test portion ... 4

8 Procedure ... **4**
8.1 Number of determinations ... 4
8.2 Blank test ... 4
8.3 Determination ... 4
8.3.1 Dissolution of test portion ... 4
8.3.2 Preparation of test solutions ... 4
8.3.3 Adjustment of the AAS ... 5
8.3.4 Atomic absorption measurements ... 5
8.4 Check test ... 5

9 Expression of results ... **5**

10 Precision and accuracy ... **6**
10.1 Expression of precision ... 6
10.2 Method for obtaining the final result ... 6
10.3 Between-laboratories precision ... 7
10.4 Check of trueness ... 8
10.4.1 General ... 8
10.4.2 Type of CRM or reference material ... 8

11 Test report ... **9**

Annex A (informative) **Procedure for the preparation and determination of the mass of a predried test portion** ... **10**

Annex B (normative) **Procedure for obtaining the final result** ... **12**

Bibliography ... **13**

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Foreword

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This document was prepared by Technical Committee ISO/TC 183, *Copper, lead, zinc and nickel ores and concentrates*.

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Copper, lead and zinc sulfide concentrates — Determination of cadmium —

Part 1: Flame atomic absorption spectrometric method

WARNING — The use of this document might involve hazardous materials, operations and equipment. It is the responsibility of the user of this document to establish appropriate health and safety practices.

1 Scope

This document specifies a flame atomic absorption spectrometric method for the determination of the mass fraction of cadmium in copper, lead and zinc sulfide concentrates as follows:

a) for copper sulfide concentrates, the method is applicable to the determination of mass fractions of cadmium from 0,01 % to 0,30 %;

b) for lead sulfide concentrates, the method is applicable to the determination of mass fractions of cadmium from 0,01 % to 0,30 %;

c) for zinc sulfide concentrates, the method is applicable to the determination of mass fractions of cadmium from 0,05 % to 0,30 %.

2 Normative reference

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 385, *Laboratory glassware — Burettes*

ISO 648, *Laboratory glassware — Single-volume pipettes*

ISO 1042, *Laboratory glassware — One-mark volumetric flasks*

ISO 4787, *Laboratory glassware — Volumetric instruments — Methods for testing of capacity and for use*

ISO 9599, *Copper, lead, zinc and nickel sulfide concentrates — Determination of hygroscopic moisture content of the analysis sample — Gravimetric method*

ISO 12743, *Copper, lead, zinc and nickel concentrates — Sampling procedures for determination of metal and moisture content*

ISO Guide 35, *Reference materials — Guidance for characterization and assessment of homogeneity and stability*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

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