ISO 13547-2:2014-11 (E)

Copper, lead, zinc and nickel sulfide concentrates - Determination of arsenic - Part 2: Acid digestion and inductively coupled plasma atomic emission spectrometric method

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Principle 2

4 Reagents 2

5 Apparatus 4

6 Sampling and sample preparation 4
6.1 Laboratory sample 4
6.2 Test sample 4
6.3 Test portion 4

7 Procedure 5
7.1 Number of determinations 5
7.2 Blank test 5
7.3 Dissolution of the test portion 5
7.4 Removal of lead sulfate 5
7.5 Dissolution of the insoluble residue 5
7.6 Preparation of test solutions 6
7.7 Preparation of calibration solutions 6
7.8 Preparation of arsenic calibration curve 6
7.9 Determination of arsenic content in test solutions 7

8 Expression of results 7

9 Precision 7
9.1 Expression of precision 7
9.2 Method for obtaining the final result 8
9.3 Between-laboratories precision 8
9.4 Check of trueness 9

10 Test report 10

Annex A (normative) Procedure for the preparation and determination of the mass of a pre-dried test portion 11

Annex B (normative) Flowsheet of the procedure for the acceptance of analytical values for test samples 13