# ISO 11534:2006-11 (E)

## Iron ores - Determination of tin - Flame atomic absorption spectrometric method

## Contents

Page


Foreword ..... iv

1 Scope ..... 1

2 Normative references ..... 1

3 Principle ..... 1

4 Reagents ..... 2

5 Apparatus ..... 3

6 Sampling and samples ..... 3
6.1 Laboratory sample ..... 3
6.2 Preparation of predried test samples ..... 4

7 Procedure ..... 4
7.1 Number of determinations ..... 4
7.2 Test portion ..... 4
7.3 Blank test and check test ..... 4
7.4 Determination ..... 4
7.4.1 Decomposition of the test portion ..... 4
7.4.2 Treatment of the test solution ..... 5
7.4.3 Adjustment of atomic absorption spectrometer ..... 5
7.4.4 Atomic absorption measurements ..... 5
7.4.5 Preparation of calibration solutions ..... 6

8 Expression of results ..... 6
8.1 Calculation of mass fraction of tin ..... 6
8.2 General treatment of results ..... 6
8.2.1 Repeatability and permissible tolerances ..... 6
8.2.2 Determination of the analytical result ..... 7
8.2.3 Between-laboratories precision ..... 7
8.2.4 Check for trueness ..... 8
8.2.5 Calculation of final result ..... 8
8.3 Oxide factor ..... 9

9 Test report ..... 9

Annex A (normative) Flowsheet of the procedure for the acceptance of analytical values for test samples ..... 10

Annex B (informative) Derivation of repeatability and permissible tolerance equations ..... 11

Annex C (informative) Precision data obtained by international analytical trials ..... 12