

ISO 2597-1:2006-05 (E)

Iron ores - Determination of total iron content - Part 1: Titrimetric method after tin(II) chloride reduction

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Principle	2
4	Reagents	2
5	Apparatus	3
6	Sampling and samples	4
6.1	Laboratory sample	4
6.2	Preparation of test samples	4
6.2.1	Ores having significant contents of combined water or oxidizable compounds	4
6.2.2	Ores outside the scope of 6.2.1	4
7	Procedure	4
7.1	Number of determinations	4
7.2	Test portion	5
7.3	Determination of hygroscopic moisture content	5
7.4	Blank test and check test	5
7.5	Determination	5
7.5.1	Decomposition of the test portion	5
7.5.2	Reduction	6
7.5.3	Titration	7
7.5.4	Blank test	7
8	Expression of results	7
8.1	Calculation of total iron content	7
8.2	General treatment of results	8
8.2.1	Repeatability and permissible tolerance	8
8.2.2	Determination of analytical result	8
8.2.3	Between-laboratories precision	8
8.2.4	Check for trueness	9
8.2.5	Calculation of final result	10
8.3	Oxide factors in percent	10
9	Test report	10
Annex A (normative)	Flowsheet for the procedure for the acceptance of analytical values for test samples	11
Annex B (informative)	Derivation of precision statements	12
Annex C (informative)	Decontamination of the waste solutions from the analysis	13