

ISO 10203:2015-07 (E)

Iron ores - Determination of calcium - Flame atomic absorption spectrometric method

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Principle	1
4	Reagents	1
5	Apparatus	2
6	Sampling and samples	3
6.1	Laboratory sample	3
6.2	Preparation of predried test samples	3
7	Procedure	4
7.1	Number of determinations	4
7.2	Test portion	4
7.3	Blank test and check test	4
7.3.1	Blank test	4
7.3.2	Check test	4
7.4	Determination	5
7.4.1	Decomposition of the test portion	5
7.4.2	Treatment of the residue	5
7.4.3	Preparation of the test solution	5
7.4.4	Adjustment of the atomic absorption spectrometer	6
7.4.5	Atomic absorption measurements	6
8	Expression of results	7
8.1	Calculation of mass fraction of calcium	7
8.2	General treatment of results	7
8.2.1	Repeatability and permissible tolerance	7
8.2.2	Determination of analytical result	8
8.2.3	Between-laboratories precision	8
8.2.4	Check for trueness	8
8.2.5	Calculation of final result	9
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
Bibliography		13