

ISO/TR 4688-1:2017-04 (E)

Iron ores - Determination of aluminium - Part 1: Flame atomic absorption spectrometric method

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	1
5	Reagents	1
6	Apparatus	2
7	Sampling and samples	3
7.1	Laboratory sample	3
7.2	Preparation of predried test samples	3
8	Procedure	3
8.1	Number of determinations	3
8.2	Test portion	4
8.3	Blank test and check test	4
8.4	Determination	4
8.4.1	Decomposition of the test portion	4
8.4.2	Treatment of the residue	4
8.4.3	Preparation of the test solution	4
8.4.4	Adjustment of the atomic absorption spectrometer	5
8.4.5	Atomic absorption measurements	5
9	Expression of results	6
9.1	Calculation of mass fraction of aluminium	6
9.2	General treatment of results	6
9.2.1	Repeatability and permissible tolerance	6
9.2.2	Determination of analytical result	7
9.2.3	Between-laboratories precision	7
9.2.4	Check for trueness	7
9.2.5	Calculation of final result	8
9.3	Oxide factor	9
10	Test report	9
Annex A (informative)	Flowsheet of the procedure for the acceptance of analytical values for test samples	10
Annex B (informative)	Derivation of repeatability and permissible tolerance formulae	11
Annex C (informative)	Precision data obtained by international analytical trials	12
Bibliography		13