

ISO 11535:2006-12 (E)

Iron ores - Determination of various elements - 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 samples	4
6.1	Laboratory sample	4
6.2	Preparation of predried test samples	5
7	Procedure	5
7.1	Number of determinations	5
7.2	Test portion	5
7.3	Blank test and check test	5
7.4	Determination	5
7.4.1	Decomposition of the test portion	5
7.4.2	Adjustment of spectrometer	6
7.4.3	Measurements	7
8	Calculation of results	7
8.1	Calibration graph	7
8.2	Correction of spectral interference	7
8.3	Standardization of calibration graph (drift correction)	9
8.4	General treatment of results	10
8.4.1	Repeatability and permissible tolerances	10
8.4.2	Determination of analytical result	10
8.4.3	Check for trueness	11
8.4.4	Calculation of final result	11
8.5	Oxide factors	12
9	Test report	12
Annex A (informative) Suggested calibration solutions		13
Annex B (normative) Plasma-spectrometer performance tests		15
Annex C (normative) Flowsheet of the procedure for the acceptance of analytical values for test samples		18
Annex D (informative) Derivation of repeatability and permissible tolerance equations		19
Annex E (informative) Precision data obtained by international analytical trials		20