

ISO 15634:2015-08 (E)

Iron ores - Determination of chromium content - 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
7.4	Determination	4
7.4.1	Decomposition of the test portion	4
7.4.2	Removal of iron	5
7.4.3	Treatment of the residue	5
7.4.4	Preparation of the calibration solutions	5
7.4.5	Preparation of the flame setting solution	6
7.4.6	Adjustment of the atomic absorption spectrometer	6
7.4.7	Atomic absorption measurements	6
8	Expression of results	6
8.1	Calculation of chromium content	6
8.2	General treatment of results	7
8.2.1	Repeatability and permissible tolerance	7
8.2.2	Determination of analytical result	7
8.2.3	Between-laboratories precision	7
8.2.4	Check for trueness	8
8.2.5	Calculation of final result	9
8.3	Oxide factor for conversion to chromium oxide	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 trial	12
Bibliography		13