

ISO 9683-1:2006-12 (E)

Iron ores - Determination of vanadium - Part 1: BPHA spectrophotometric method

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Principle	1
4	Reagents	2
5	Apparatus	3
6	Sampling and samples	3
6.1	Laboratory sample	3
6.2	Preparation of predried test samples	4
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	Colour development and extraction	5
7.4.3	Spectrophotometric measurement	5
7.4.4	Calibration	5
8	Expression of results	6
8.1	Calculation of mass fraction of vanadium	6
8.2	General treatment of results	6
8.2.1	Repeatability and permissible tolerance	6
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	8
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 equations	11
Annex C (informative)	Precision data obtained by international analytical trials	12