

# ISO 9682-2:2006-12 (E)

## Iron ores - Determination of manganese content - Part 2: Periodate spectrophotometric method

---

<b>Contents</b>		<b>Page</b>
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 .....	3
7	Procedure .....	3
7.1	Number of determinations .....	3
7.2	Test portion .....	4
7.3	Blank test and check test .....	4
7.4	Calibration .....	4
7.4.1	Samples containing more than 0,1 % (by mass) of manganese .....	4
7.4.2	Samples containing less than 0,1 % manganese .....	5
7.5	Determination .....	5
7.5.1	Decomposition of the test portion .....	5
7.5.2	Treatment of the residue .....	6
7.5.3	Treatment of the test solution .....	6
7.5.4	Spectrophotometric measurements .....	6
8	Expression of results .....	7
8.1	Calculation of mass fraction of manganese .....	7
8.2	General treatment of results .....	8
8.2.1	Repeatability and permissible tolerance .....	8
8.2.2	Determination of analytical result .....	8
8.2.3	Between-laboratories precision .....	8
8.2.4	Check for trueness .....	9
8.2.5	Calculation of final results .....	9
8.3	Oxide factor .....	10
9	Test report .....	10
Annex A (normative)	Flowsheet of the procedure for the acceptance of analytical values for test samples .....	11
Annex B (informative)	Derivation of repeatability and permissible tolerance .....	12
Annex C (informative)	Precision data obtained by international analytical trials .....	13