

ISO 21826-1:2022-07 (E)

Iron ores - Determination of total iron content using the EDTA photometric titration method - Part 1: Microwave digestion method

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Reagents	2
6	Apparatus	5
7	Sampling and samples	6
7.1	Laboratory sample	6
7.2	Preparation of test samples	6
7.2.1	General	6
7.2.2	Ores having significant contents of combined water or oxidizable compounds	6
7.2.3	Ores outside the scope of 7.2.2	6
8	Procedures	6
8.1	Number of determinations	6
8.2	Test portion	6
8.3	Blank test	7
8.4	Determination	7
8.4.1	Decomposition of the test portion	7
8.4.2	Titration	7
8.5	Procedure of blank test	7
9	Expression of results	8
9.1	Calculation of total iron content	8
9.2	General treatment of results	8
9.2.1	Repeatability and permissible tolerance	8
9.2.2	Methods for checking the acceptability of the test results and determining the final quoted result	9
9.2.3	Between-laboratories precision	9
9.2.4	Check for trueness	9
9.2.5	Calculation of final result	10
9.3	Oxide factors	10
10	Test report	11
Annex A (informative)	Flowsheet of the procedure for the acceptance of analytical values for test samples	12
Annex B (informative)	Typical titration curves	13
Annex C (informative)	Titration parameters for reference	15
Bibliography		26