ISO 5416:2006-04 (E)

Direct reduced iron - Determination of metallic iron - Bromine-methanol titrimetric 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 test samples 3

7 Procedure 3
7.1 Number of determinations 3
7.2 Test portion 3
7.3 Blank test and check test 3
7.4 Determination of hygroscopic moisture content 4
7.5 Determination 4

8 Expression of results 5
8.1 Calculation of mass fraction of metallic iron 5
8.2 General treatment of results 5

9 Test report 7

Annex A (normative) Flowsheet of the procedure for the acceptance of analytical values for test samples 8

Annex B (informative) Derivation of repeatability and permissible tolerance equations 9

Annex C (informative) Precision data obtained by international analytical trials 10

Annex D (informative) Determination of degree of metallization 11

Annex E (informative) Decontamination of the waste solutions from the analysis 12