ISO 4942:2016-07 (E)

Steels and irons - Determination of vanadium content - N-BPHA spectrophotometric method

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 1

5 Reagents 1

6 Apparatus 3

7 Sampling 3

8 Procedure 3
8.1 Test portion 3
8.2 Blank test 3
8.3 Determination 4
8.3.1 Preparation of the test solution 4
8.3.2 Oxidation of vanadium 4
8.3.3 Colour development and extraction 4
8.3.4 Spectrophotometric measurements 4
8.4 Establishment of the calibration curve 5
8.4.1 Preparation of the calibration solutions 5
8.4.2 Spectrophotometric measurements 5
8.4.3 Plotting of the calibration curve 5

9 Expression of results 5
9.1 Method of calculation 5
9.2 Precision 6

10 Special cases 7

11 Test report 7

Annex A (informative) Additional information on the international interlaboratory test 8

Annex B (informative) Graphical representation of precision data 9

Bibliography 10