ISO 4940:2025-07 (E)

Steel and cast iron - Determination of nickel content - Flame atomic absorption spectrometric method

Contents

Page

Foreword ..... **iv**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Principle **1**

5 Reagents **2**

6 Apparatus **3**

7 Sampling and sample preparation **4**

8 Procedure **4**

8.1 General 4

8.2 Test portion 4

8.3 Blank test 4

8.4 Determination 4

8.4.1 Preparation of the test solution 4

8.4.2 Nickel contents higher than 0,10 % 5

8.4.3 Preparation of the calibration solutions 5

8.4.4 Adjustment of the atomic absorption spectrometer 6

8.4.5 Spectrometric measurements 6

8.5 Plotting the calibration curve 7

8.6 Use of bracketing method 7

9 Expression of results **7**

9.1 Use of the calibration curve 7

9.2 Use of bracketing method 8

10 Test report **8**

Annex A (informative) **Precision** **9**

Annex B (informative) **Procedures for the determination of instrumental criteria** **11**

Bibliography **13**