

ISO 4943:2022-08 (E)

Steel and cast iron - Determination of copper 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	1
6	Apparatus	2
6.1	Atomic absorption spectrometer	2
6.1.1	Minimum precision	3
6.1.2	Limit of detection	3
6.1.3	Calibration linearity	3
6.1.4	Characteristic concentration	3
6.2	Ancillary equipment	3
7	Sampling	3
8	Procedure	3
8.1	Test portion	3
8.2	Blank test	4
8.3	Determination	4
8.3.1	Preparation of the test solution	4
8.3.2	Preparation of the calibration solutions	4
8.3.3	Adjustment and optimization of atomic absorption spectrometer	6
8.3.4	Spectrometric measurements	7
8.4	Plotting the calibration curve	7
9	Expression of results	7
10	Precision	8
11	Test report	8
Annex A (normative) Procedures for the determination of instrumental criteria		10
Annex B (informative) Additional information on the international interlaboratory precision test		13
Annex C (informative) Graphical representation of precision data		14
Bibliography		15