

# ISO 4947:2020 (E)

## Steel and cast iron — Determination of vanadium content — Potentiometric titration method

---

### Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
5	Reagents
6	Apparatus
7	Sampling
8	Procedure
8.1	Test portion
8.2	Blank test
8.3	Determination
8.3.1	Preparation of the test solution
8.3.1.1	Samples soluble in sulfuric acid
8.3.1.2	Samples not readily soluble in sulfuric acid
8.3.2	Oxidation of chromium and vanadium
8.3.3	Preparation of the solution for titration
8.3.3.1	Control of the oxidation of chromium and vanadium
8.3.3.2	Reduction of chromium and vanadium
8.3.4	Oxidation of vanadium
8.4	Titration
9	Expression of results
9.1	Method of calculation
9.2	Precision
10	Test report
Annex A	(informative) Additional information on the international interlaboratory test
Annex B	(informative) Graphical representation of precision data

Page count: 10