ISO/TR 16208:2014-01 (E)

Corrosion of metals and alloys - Test method for corrosion of materials by electrochemical impedance measurements

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principles 3
4.1 Simple corroding system 3
4.2 Presentation of impedance by a complex number 5
4.3 Impedance spectra of circuit elements 6
4.4 Presentation of a simple corroding system 7

5 Apparatus 9
5.1 General 9
5.2 Test cell 10
5.3 Electrode holder 10
5.4 Electrode material 10
5.5 Reference electrode 11
5.6 Electrolyte 11

6 Specimen preparation 11

7 Solution preparation 11

8 Dummy cell 11

9 Procedure 11

10 Data analysis 12

11 Test report 14

Annex A (informative) Dummy cell 15

Annex B (informative) Data analysis 17

Bibliography 23