ISO 21062:2020-05 (E)

Corrosion of metals and alloys - Determination of the corrosion rates of embedded steel reinforcement in concrete exposed to simulated marine environments

Contents

Page

Foreword ..... **iv**

Introduction ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Apparatus **2**

5 Test materials **4**

6 Preparation of specimens **4**
- 6.1 Reinforcing steel cleaning 4
- 6.2 Reinforcing steel coating ends 4
- 6.3 Adding industrial salt 4
- 6.4 Making concrete specimens 5

7 Test procedure **5**
- 7.1 Initial performance test 5
  - 7.1.1 Mechanical properties and chemical compositions of reinforcing bars 5
  - 7.1.2 Mass 6
  - 7.1.3 Dimensions 6
  - 7.1.4 Concrete strength 6
- 7.2 Test data recording 6
  - 7.2.1 Test time 6
  - 7.2.2 Cracks record 6
- 7.3 Breaking of specimens 7
  - 7.3.1 General 7
  - 7.3.2 Mechanical properties 7
  - 7.3.3 Mass 7
  - 7.3.4 Dimensions 7

8 Test result **8**
- 8.1 Mass loss rate of test bar 8
- 8.2 Average mass loss rate of test bar 8
- 8.3 Ratio of the mass loss rate of the benchmark bar and the test bar 8
- 8.4 Average ratio of the mass loss rate of the benchmark bar and the test bar 8

9 Test report **9**

Annex A (informative) **Examples of experimental results** **10**