

ISO 16151:2018 (E)

Corrosion of metals and alloys — Accelerated cyclic test with exposure to acidified salt spray, dry and wet conditions

Contents

| | |
|---------|--|
| | Foreword |
| | Introduction |
| 1 | Scope |
| 2 | Normative references |
| 3 | Terms and definitions |
| 4 | Test solution |
| 4.1 | General |
| 4.2 | Method A |
| 4.2.1 | Neutral sodium chloride solution |
| 4.2.2 | Preparation of the acidified-salt solution |
| 4.3 | Method B |
| 4.3.1 | Preparation of the mixed salt solution |
| 4.3.2 | Preparation of the acidic solution |
| 4.3.3 | Preparation of the acidified-salt solution |
| 5 | Apparatus |
| 6 | Test specimens |
| 7 | Arrangement of the test specimen |
| 8 | Operating condition |
| 9 | Continuity of tests |
| 10 | Duration of the tests |
| 11 | Treatment of test specimens after test |
| 11.1 | General |
| 11.2 | Non-organic coated test specimens: metallic and/or inorganic coated |
| 11.3 | Organic coated test specimens |
| 11.3.1 | Scribed organic coated test specimens |
| 11.3.2 | Organic coated but not scribed test specimens |
| 12 | Evaluation of results |
| 13 | Test report |
| Annex A | (informative) Relationship between amounts of acidic stock solution added to mixed salt solution and pH of the resulting acidified-salt solution |
| Annex B | (informative) Typical apparatus for accelerated cyclic tests with exposure to acidified salt spray, dry and wet conditions |
| Annex C | (informative) Method for evaluation of the corrosivity of the apparatus |
| C.1 | Reference specimens |
| C.2 | Arrangement of the reference specimens |
| C.3 | Duration of tests |

- C.4 Determination of mass loss
- C.5 Satisfactory performance of apparatus

Annex D (normative) Preparation of test specimens with organic coatings for testing

- D.1 Preparation and coating of test specimens
- D.2 Drying and conditioning
- D.3 Thickness of coating
- D.4 Preparation of scribes

Annex E (normative) Required supplementary information for testing test specimens with organic coatings

Page count: 19