DIN EN ISO 16151:2008-07 (E)

Corrosion of metals and alloys - Accelerated cyclic tests with exposure to acidified salt s pray, "dry" and "wet" conditions (ISO 16151:2005)

Contents

Page

Foreword ... 3

Introduction ... 4

1 Scope ... 5

2 Normative references ... 5

3 Test solution ... 6
3.1 Method A ... 6
3.1.1 Preparation of acidic 5 % sodium chloride solution ... 6
3.2 Method B ... 7
3.2.1 Preparation of the mixed salt solution ... 7
3.2.2 Preparation of the acidic solution ... 7
3.2.3 Preparation of the acidified-salt solution ... 7

4 Apparatus ... 8
4.1 Exposure cabinet ... 8
4.2 Humidity and temperature control ... 8
4.3 Spraying device ... 8
4.4 Air saturator ... 8
4.5 Collecting devices ... 8
4.6 Air dryer ... 9
4.7 Exhaust system ... 9
4.8 Drain system ... 9

5 Test specimens ... 9

6 Arrangement of the test specimens ... 9

7 Operating conditions ... 10

8 Continuity of tests ... 12

9 Duration of tests ... 12

10 Treatment of specimens after test ... 12

11 Evaluation of results ... 12

12 Test report ... 13

Annex A (informative) **Relationship between amount of acidic stock solution added to mixed salt solution and pH of the resulting acidified-salt solution** ... 14

Annex B (informative) **Typical apparatus for accelerated cyclic tests with exposure to acidified salt spray, “dry” and “wet” conditions** ... 15

Annex C (informative) **Method of evaluation of the corrosivity of the chamber** ... 17

Bibliography ... 19