

# DIN EN ISO 16151:2008-07 (E)

## Corrosion of metals and alloys - Accelerated cyclic tests with exposure to acidified salt spray, "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