

ISO 16539:2013-03 (E)

Corrosion of metals and alloys - Accelerated cyclic corrosion tests with exposure to synthetic ocean water salt-deposition process - "Dry" and "wet" conditions at constant absolute humidity

| Contents | | Page |
|------------------------------|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Test solution | 2 |
| 3.1 | Preparation of the mixed salt solution | 2 |
| 3.2 | pH adjustment | 2 |
| 3.3 | Preparation of the test solution | 2 |
| 4 | Apparatus | 3 |
| 4.1 | Component protection | 3 |
| 4.2 | Exposure cabinet | 3 |
| 4.3 | Salt deposition device | 3 |
| 4.4 | Temperature and humidity control device | 3 |
| 4.5 | Rinse treatment of specimens | 3 |
| 4.6 | Types of apparatus | 3 |
| 5 | Test specimens | 4 |
| 6 | Salt deposition measurement method | 4 |
| 7 | Arrangement of the test specimens | 4 |
| 8 | Operating conditions and procedure | 4 |
| 9 | Treatment of specimens after test | 9 |
| 10 | Continuity of tests | 9 |
| 11 | Duration of tests | 9 |
| 12 | Evaluation of results | 9 |
| 13 | Test report | 9 |
| Annex A (informative) | Combined cyclic test instrument with salt deposition unit (two cabinets).11 | |
| Annex B (informative) | Combined cyclic test instrument with salt deposition unit (one cabinet) | 12 |
| Annex C (informative) | Salt deposition method by manual spraying | 13 |
| Annex D (informative) | Recommended periods of testing | 15 |
| Annex E (informative) | Methods for evaluation of corrosivity of test | 17 |

Bibliography 19