ISO 18089:2015-11 (E)

Corrosion of metals and alloys - Determination of the critical crevice temperature (CCT) for stainless steels under potentiostatic control

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 2

5 Equipment 2

6 Procedure 3
6.1 Preparation of reference electrodes 3
6.2 Preparation of specimen 3
6.3 Preparation of solution 4
6.4 Setting up the test 4
6.5 Ending test 5

7 Assessment of results 5

8 Test report 5

Annex A (informative) Examples of how the connections of the electrode can be made 7

Annex B (normative) Schematic representation of different crevice formers used for CCT-measurements 8

Annex C (normative) Calibration of specimen temperature vs. solution temperature if a specimen holder is used 11

Annex D (informative) Potential difference of selected reference electrodes at 25 °C with respect to the standard hydrogen electrode (SHE) 12

Bibliography 13