ISO 17224:2015-04 (E)

Corrosion of metals and alloys - Test method for high temperature co rrosion testing of metallic materials by application of a deposit of salt, ash, or other substances

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Test method 2
4.1 Principle 2
4.2 Reagents and materials 2
4.2.1 Test pieces 2
4.2.2 Corrosive deposit 3
4.3 Test apparatus 3
4.3.1 Design of apparatus 3
4.3.2 Temperature monitoring 4
4.3.3 Gas supply 5
4.4 Procedure 5
4.4.1 Preparation and placement of the test piece 5
4.4.2 Test environment 6
4.4.3 Heating method 6
4.4.4 Test duration 6
4.4.5 Cooling of test pieces 7
4.4.6 Discontinuous testing 7
4.5 Determination of mass change 7
4.5.1 Principle 7
4.5.2 Measurements prior to testing 7
4.5.3 Descaling prior to mass determination 7
4.5.4 Measurement of corrosion mass loss 8

5 Examination of surface and microstructure of corroded test pieces 8

6 Report 8
6.1 Matters to be described 8
6.1.1 Test material 8
6.1.2 Test piece 8
6.1.3 Testing environments 8
6.1.4 Test results 9
6.2 Supplementary note 9

Annex A (informative) Chemical and electrolytic procedures for removal of corrosion products 10

Bibliography 13