

ISO 17224:2015-04 (E)

Corrosion of metals and alloys - Test method for high temperature corrosion 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	Terms and definitions	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