

# 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

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Test method .....</b>	<b>2</b>
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
<b>5</b>	<b>Examination of surface and microstructure of corroded test pieces .....</b>	<b>8</b>
<b>6</b>	<b>Report .....</b>	<b>8</b>
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