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**Methods of accelerated cyclic corrosion
tests for surface treated steel sheet**

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Iron and Steel Federation (JISF)/Japan Construction Material & Housing Equipment Industries Federation (J-CHIF) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS G 0594:2004** is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

It should be noted that being in conformance with this Standard may come under the use of the patent rights held by the following:

Type of test	Patent number	Title of invention	Date of registration
D	4218280	Method for evaluating corrosion resistance of steel plates for home appliances and steel plates for electrical and electronic parts for home appliances	21 November 2008

The relevant holders of the above-mentioned patent rights have indicated an intention of granting license to anyone under the nondiscriminatory and reasonable conditions, except to the other relevant holders of the patent rights related to this Standard who will not grant their licenses under the same conditions.

It should be noted that following this Standard does not always refer to granting a free license.

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The “patent rights” as mentioned here include patent right, application for a patent after opening to the public or utility model right.

Methods of accelerated cyclic corrosion tests for surface treated steel sheet

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 16151** : 2005, Edition 1, and **ISO 16539** : 2013, Edition 1, with some modifications of the technical contents. This Standard lays down the details of Methods B, C and D of accelerated cyclic corrosion tests. Method A of **ISO 16151** is specified in 8.2 of **JIS H 8502**.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standards. A list of modifications with the explanations is given in Annex JB. Annex JA contains unique contents to **JIS** that are not given in the corresponding International Standards.

1 Scope

This Standard specifies three types of accelerated cyclic corrosion tests ¹⁾ for zinc-coated steel sheets and other surface treated steel sheets intended for use in corrosion environment containing salt particles carried afloat from the sea.

Warning Persons carrying out tests based on this Standard should be familiar with normal laboratory practice. This Standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this Standard to establish appropriate safety and health practices.

NOTE The International Standards corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 16151 : 2005 *Corrosion of metals and alloys — Accelerated cyclic tests with exposure to acidified salt spray, “dry” and “wet” conditions*

ISO 16539 : 2013 *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 (Overall evaluation : MOD)*

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

Note ¹⁾ Acidified salt spray cyclic test (see 3.3.1), neutral salt spray cyclic test (see 3.3.2), and salt deposition cyclic test (see 3.3.3).

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For standards with the year indication, only the editions of the indicated year shall be applied and the revisions (including amend-