

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS Z 2371 : 2000

Methods of salt spray testing

ICS 77.060

Descriptors : metals, coatings, corrosion tests, salt-spray tests

Reference number : JIS Z 2371 : 2000 (E)

Z 2371 : 2000

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS Z 2371:1994** is replaced with **JIS Z 2371:2000**.

This revision has been prepared based on **ISO 9227:1990** *Corrosion tests in artificial atmospheres — Salt spray tests* for the purposes of comparison and conformity with the International Standard.

Date of Establishment: 1955-12-16

Date of Revision: 2000-02-20

Date of Public Notice in Official Gazette: 2000-02-21

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Basic Items

JIS Z 2371:2000, First English edition published in 2000-11

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2000

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

PROTECTED BY COPYRIGHT

Methods of salt spray testing

Introduction This Japanese Industrial Standard has been prepared based on the first edition of **ISO 9227** *Corrosion tests in artificial atmospheres — Salt spray tests* published in 1990. However, some items and contents not specified in the corresponding International Standard have been added, and some parts have been rejected because the experimental results of the reference specimens specified have not conformed to the requirements. The main differences are shown as follows:

The rejected part: The evaluation method for reproducibility of testing apparatus

The portions underlined with dots or sidlined in this Standard are the items not specified in the corresponding International Standard.

1 Scope This Japanese Industrial Standard specifies the required apparatus, reagent, technique or acceptance criteria when the corrosion resistance test of metallic materials or of those electroplated or treated with inorganic or organic films by the methods of neutral salt spray test (NSS), acetic acid salt spray test (AASS) or CASS test (CASS).

Remarks: The International Standard corresponding to this Standard is listed as follows.

ISO 9227: 1990 *Corrosion tests in artificial atmospheres — Salt spray tests*

2 Normative references The following standards contain provision which, through reference in this Standard, constitute provisions of this Standard, the most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 3141 *Cold-reduced carbon steel sheets and strip*

Remarks: The provisions cited from **ISO 3574: 1986** *Cold-reduced carbon steel sheet of commercial and drawing qualities* are equivalent to the corresponding provisions of the said standard.

JIS K 0557 *Water used for industrial water and wastewater analysis*

JIS K 8145 *Copper (II) chloride dihydrate*

JIS K 8150 *Sodium chloride*

JIS K 8180 *Hydrochloric acid*

JIS K 8355 *Acetic acid*

JIS K 8576 *Sodium hydroxide*

JIS K 8847 *Hexamethylenetetramine*

JIS Z 8802 *Methods for determination of pH of aqueous solutions*

3 Apparatus The apparatus necessary to salt spray testing shall be composed of an atomizing chamber equipped with an atomizer, a testing salt solution reservoir, a specimen support, atomized solution sampling containers, a temperature controller,