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Methods of salt spray testing

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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.

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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 0145 *Copper (II) chloride dihydrate*

JIS K 0150 *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,