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Methods of corrosion resistance test for metallic coatings

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Descriptors : metal coatings, testing, corrosion, tests, electroplating

Reference number : **JIS H 8502 : 1999 (E)**

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 H 8502**:1988 is replaced with **JIS H 8502**:1999.
Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right, or application for a registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right, or application for registration of utility model after opening to the public which have the said technical properties.

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

Methods of corrosion resistance test for metallic coatings

Introduction This Japanese Industrial Standard has been prepared based on the corresponding International Standards listed in Remarks to 1 Scope for the corresponding parts, without any modification of technical contents, and added the items not specified in the corresponding International Standards and further the contents specified in the corresponding International Standards (test method of sulfur dioxide, test method of hydrogen sulfide, and test method of mixed gas) with partial modification.

1 Scope This Standard specifies the methods of corrosion resistance test for the metallic coatings and the products coated with metal. Metallic coating contains such plating as electroplating, electroless plating, vapor deposition(1), and hot-dip plating.

Note (1) Vapor deposition means vacuum evaporation, sputtering, ion plating, chemical vapor deposition, and so on.

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

ISO 4540:1980 *Metallic coatings — Coatings cathodic to the substrate — Rating of electroplated test specimens subjected to corrosion tests*

ISO 4541:1978 *Metallic and other non-organic coatings — Corrodkote corrosion test (CORR test)*

ISO 8407:1991 *Corrosion of metals and alloys — Removal of corrosion products from corrosion test specimens*

ISO 8565:1992 *Metals and alloys — Atmospheric corrosion testing — General requirements for field tests*

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

ISO 10062:1991 *Corrosion tests in artificial atmosphere at very low concentrations of polluting gas(es)*

ISO/DIS 14993:1998 *Corrosion of metals and alloys — Accelerated corrosion testing involving cyclic exposure to salt mist, dry and wet conditions*

IEC 60068-2-42:1982 *Basic environmental testing procedure — Part 2: Tests. Test Kc : Sulfur dioxide test for contacts and connections*

IEC 60068-2-43:1976 *Basic environmental testing procedure — Part 2: Tests. Test Kd : Hydrogen-sulphide test for contacts and connections*

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