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Methods of thickness test for metallic coatings

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thickness measurement

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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 H 8501:1988** is replaced with **JIS H 8501:1999**.

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 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,
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Methods of thickness test for metallic coatings

Introduction This Japanese Industrial Standard has been prepared based on the corresponding International Standards listed in Remarks to **1 Scope**, without any modification in technical contents, and the items not specified in the corresponding International Standards are complementarily added as a part of the Japanese Industrial Standard.

1 Scope This Japanese Industrial Standard specifies the methods of thickness test for the electric and chemical metallic coatings on the basis metal.

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

- ISO 1463 : 1982 Metallic and oxide coatings — Measurement of coating thickness — Microscopical method
- ISO 2064 : 1996 Metallic and other inorganic coatings — Definitions and conventions concerning the measurement of the thickness
- ISO 2177 : 1985 Metallic coatings — Measurement of coating thickness — Coulometric method by anodic dissolution
- ISO 2178 : 1982 Non-magnetic coatings on magnetic substrates — Measurement of coating thickness — Magnetic method
- ISO 2360 : 1982 Non-conductive coatings on non-magnetic basis metals — Measurement of coating thickness — Eddy current method
- ISO 3497 : 1990 Metallic coatings — Measurement of coating thickness — X-ray spectrometric methods
- ISO 3543 : 1981 Metallic and non-metallic coatings — Measurement of thickness — Beta backscatter Method
- ISO 3868 : 1976 Metallic and other non-organic coatings — Measurement of coating thickness — Fizeau multiple-beam interferometry method
- ISO 3882 : 1986 Metallic and other non-organic coatings — Review of methods of measurement of thickness
- ISO 4518 : 1980 Metallic coatings — Measurement of coating thickness — Profilometric method
- ISO 9220 : 1988 Metallic coatings — Measurement of coating thickness — Scanning electron microscope method

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.

JIS B 0601 *Surface roughness — Definitions and designation*

JIS B 7503 *Dial gauges*

JIS B 7519 *Microindicators*