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Autocatalytic nickel-phosphorus coatings on metals

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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 8645**:1989 is replaced with **JIS H 8645**:1999.

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Introduction This Japanese Industrial Standard has been prepared based on the corresponding parts to International Standard shown in Remarks to clause 1 Scope without any modification in the technical contents, however, some specifications, which are not specified in the corresponding International Standards, have been supplemented in this Standard.

- 1 Scope This Japanese Industrial Standard specifies autocatalytic nickel-phosphorus coatings(1) (hereafter referred to as "coatings") applying on significant surface of such basis metal as iron, copper, aluminium, and their alloy to improve corrosion resistance, abrasion resistance, and others.
 - Note (1) This is autocatalytic type nickel-phosphorus coating by the reduction using hypophosphorous acid, that produce a deposit mainly of nickel containing 2 % to 15 % of phosphorus.
 - Remarks: The International Standard corresponding to this Standard is as follows.
 - ISO 4527: 1987 Autocatalytic nickel-phosphorus coating Specification and test methods
- 2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of these standards indicated bellow shall be applied.
 - JIS B 0651 Surface texture Instruments for the assessment of surface texture Profile method
 - JIS C 0050 Basic environmental testing procedures Part 2: Tests, Test T: Soldering
 - JIS G 1204 General rules for fluorescent X-ray analysis of iron and steel
 - JIS H 0400 Glossary of terms used in electroplating and related processes
 - JIS H 0404 Graphical symbol for electroplated coating
 - JIS H 8501 Methods of thickness test for metallic coatings
 - JIS H 8502 Methods of corrosion resistance test for metallic coatings
 - JIS H 8503 Methods of wear resistance test for metallic coatings
 - JIS H 8504 Methods of adhesion test for metallic coatings
 - JIS K 0050 General rules for chemical analysis
 - JIS K 0115 General rules for molecular absorptiometric analysis
 - JIS K 0119 General rules for X-ray fluorescence spectrometric analysis
 - JIS K 8001 General rule for test methods of reagents
 - JIS Z 2251 Knoop hardness test Test method
 - JIS Z 3282 Soft solders Chemical compositions and forms
 - JIS Z 9031 Random sampling methods

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