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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as a result of proposal of establishing a Japanese Industrial Standard from The Japan Research Institute for Screw Threads and Fasteners (JFRI)/Japanese Standards Association (JSA), with a draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

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Fasteners—Hot dip galvanized coatings

Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **ISO 10684** published in 2004 with some modifications of the technical contents.

The portions given dotted underlines are the matters in which the contents of the original International Standard have been modified. A list of modifications with explanations is given in Annex JA.

1 Scope

This Standard specifies material, process, dimensional and some performance requirements for hot dip galvanized coatings applied to steel fasteners of thread from M8 to M64, and for property class under 10.9 for bolts, screws and studs as well as for property class below 12 for nuts.

It is not recommended to hot dip galvanize threaded fasteners in diameters smaller than M8 and/or with pitches below 1.25 mm.

NOTE 1 Attention is drawn to the fact that the proof load and stress under proof load of oversize tapped nuts with threads M8 and M10 and the ultimate tensile loads and proof loads of undersize threaded bolts and screws with threads M8 and M10 are reduced as compared to the values specified in **JIS B 1052** and **JIS B 1051** respectively and are specified in Annex A.

It primarily concerns the hot dip galvanizing of threaded steel fasteners, but it may also be applied to other threaded steel parts.

The specifications in this Standard may also be applied to non-threaded steel parts such as washers.

NOTE 2 This Standard applies to the fastener that is the nut tapped after coatings combined with the bolt coated after threading.

NOTE 3 This Standard specifies the characteristics of the hot dip galvanized coatings on fasteners, however, the specifications concerning the characteristics thereof shall be restricted for a certain processing technology. Therefore, it is not intended to perform conformity assessment with this Standard.

NOTE 4 The International Standard corresponding to this Standard is as follows.

ISO 10684:2004 *Fasteners—Hot dip galvanized coatings* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21**.