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High carbon steel wire rods

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In the event of any doubts arising as to the contents,
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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Iron and Steel Federation (JISF) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS G 3506:2004** is replaced with this Standard.

However, **JIS G 3506:2004** may be applied in the **JIS** mark certification based on the relevant provisions of Article 19 Clause 1, etc. of the Industrial Standardization Law until February 19, 2018.

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High carbon steel wire rods

Introduction

This Japanese Industrial Standard has been prepared based on the second editions of **ISO 16120-1** and **ISO 16120-2** published in 2011 with some modifications of the technical contents.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanation is given in Annex JB.

1 Scope

This Standard specifies high carbon steel wire rods (hereafter referred to as wire rods) to be used for the manufacture of the hard drawn steel wires, oil tempered steel wires, hard drawn steel wires for prestressed concrete, galvanized steel wire strands, wire ropes, etc. It is not applicable to wire rods for piano wire rods.

NOTE : The International Standards corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 16120-1:2011 *Non-alloy steel wire rod for conversion to wire—Part 1: General requirements*

ISO 16120-2:2011 *Non-alloy steel wire rod for conversion to wire—Part 2: Specific requirements for general-purpose wire rod* (Overall evaluation: 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 21-1**.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 0320 *Standard test method for heat analysis of steel products*

JIS G 0105 *Steel and steel products—General technical delivery requirements*

JIS G 0415 *Steel and steel products—Inspection documents*

JIS G 0551 *Steels—Micrographic determination of the apparent grain size*

JIS G 0555 *Microscopic testing method for the non-metallic inclusions in steel*

JIS G 0558 *Steels—Determination of depth of decarburization*

JIS G 3191 *Dimensions, mass and permissible variations of hot rolled steel bars and bar in coil*

JIS Z 2241 *Metallic materials—Tensile testing—Method of test at room temperature*