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Piano wire rods

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

This Japanese Industrial Standard has been 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 a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS G 3502:2013**), which has been technically revised.

However, **JIS G 3502:2013** may be applied in the **JIS** mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 19 November 2020.

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NOTE Based on Article 9 of the Supplementary Provisions to the Unfair Competition Prevention Act, etc., any submission of proposal, or deliberations or other procedures by the Japanese Industrial Standards Committee conducted under the previous Industrial Standardization Act shall be deemed to have been conducted pursuant to the provision of Article 12, paragraph (1) of the revised Industrial Standardization Act.

Piano wire rods

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 16120-1:2017**, Edition 3, and **ISO 16120-4:2017**, Edition 3, with some modifications of the technical contents.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standards. A list of modifications with the explanations is given in Annex JB. Annex JA is unique to **JIS** and not given in the corresponding International Standards.

1 Scope

This Standard specifies requirements for piano wire rods (hereafter referred to as wire rods) to be used for the manufacture of piano wires, oil tempered steel wires, steel wires for prestressed concrete, steel wire strands for prestressed concrete, wire ropes, etc.

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

ISO 16120-1:2017 *Non-alloy steel wire rod for conversion to wire—Part 1: General requirements*

ISO 16120-4:2017 *Non-alloy steel wire rod for conversion to wire—Part 4: Specific requirements for wire rod for special applications* (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 0201 *Glossary of terms used in iron and steel (Heat treatment)*
- JIS G 0202 *Glossary of terms used in iron and steel (Testing)*
- JIS G 0203 *Glossary of terms used in iron and steel (Products and quality)*
- JIS G 0320 *Standard test method for heat analysis of steel products*
- JIS G 0404 *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*