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Hard drawn steel wires

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

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Classification, symbols of grade and applicable wire diameters	1
4 Material	2
5 Manufacturing method	2
6 Mechanical properties	2
6.1 Tensile strength	2
6.2 Winding property	3
6.3 Torsion characteristics	3
6.4 Bendability	4
7 Wire diameter and its tolerance	4
7.1 Standard wire diameter	4
7.2 Tolerances on wire diameter and out-of-roundness	4
8 Appearance	4
9 Tests	5
9.1 Sampling	5
9.2 Tensile test	5
9.3 Winding test	5
9.4 Torsion test	5
9.5 Bend test	5
9.6 Measurement of wire diameter	5
10 Inspection	6
10.1 Inspection	6
10.2 Reinspection	6
11 Marking	6
12 Report	6
Annex JA (informative) Comparison table between JIS and corresponding International Standards	7

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 Japan Wire Products Association (JWPA) 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 3521:1991** is replaced with this Standard.

However, **JIS G 3521:1991** 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, 2019.

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Hard drawn steel wires

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 8458-1**:2002, Edition 2 and **ISO 8458-2**:2002, Edition 2 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 explanations is given in Annex JA.

1 Scope

This Standard specifies hard drawn steel wires that are applied mainly to springs for static duty applications (hereafter referred to as wires).

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

ISO 8458-1:2002 *Steel wire for mechanical springs—Part 1: General requirements*

ISO 8458-2:2002 *Steel wire for mechanical springs—Part 2: Patented cold-drawn non-alloy steel wire* (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 B 7502 *Micrometers*

JIS G 0404 *Steel and steel products—General technical delivery requirements*

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

JIS G 3506 *High carbon steel wire rods*

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

3 Classification, symbols of grade and applicable wire diameters

Wires shall be classified into three grades, and symbol of grade and applicable wire diameters shall be as given in Table 1.