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**Stainless steel tubes for machine and
structural purposes**

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry based on the provision of Article 14, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act in response to a proposal for revision of Japanese Industrial Standard with a draft being attached, submitted by The Japan Iron and Steel Federation (JISF), an accredited standards development organization. This edition replaces the previous edition (**JIS G 3446 : 2017**), which has been technically revised.

However, **JIS G 3446 : 2017** 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 May 2023.

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— Name : NIPPON STEEL Stainless Steel Corporation

— Address : 8-2 Marunouchi 1-chome, Chiyoda-ku, Tokyo

Symbol of grade	Title of invention	Patent number	Registration date of establishment of patent right
SUS821L1T KA	Low-alloy duplex stainless steel wherein weld heat-affected zones have good corrosion resistance and toughness	5345070	23 August 2013

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Stainless steel tubes for machine and structural purposes

1 Scope

This Japanese Industrial Standard specifies requirements for the stainless steel tubes (hereafter referred to as tubes) used for machinery, automobiles, bicycles, furniture, apparatus, other mechanical parts and structures.

2 Normative references

Part or all of the provisions of the following standards, 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 0321 *Product analysis and its tolerance for wrought steel*
- JIS G 0404 *Steel and steel products — General technical delivery requirements*
- JIS G 0415 *Steel and steel products — Inspection documents*
- JIS Z 2241 *Metallic materials — Tensile testing — Method of test at room temperature*
- JIS Z 2243-1 *Brinell hardness test — Part 1 : Test method*
- JIS Z 2243-2 *Brinell hardness test — Part 2 : Table of hardness values*
- JIS Z 2244-1 *Vickers hardness test — Part 1 : Test method*
- JIS Z 2244-2 *Vickers hardness test — Part 2 : Tables of hardness values*
- JIS Z 2245 *Rockwell hardness test — Test method*
- JIS Z 8401 *Rounding of numbers*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS G 0201**, **JIS G 0202** and **JIS G 0203** apply.

4 Symbol of grade

Tubes are classified into 32 grades. The classification, symbols of grade and symbols for manufacturing method shall be as given in Table 1.