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

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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 3446**: 2004 is replaced with this Standard.

However, **JIS G 3446** : 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 January 19th, 2013.

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Stainless steel pipes for machine and structural purposes

1 Scope

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

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 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 8401 *Guide to the rounding of numbers*

3 Grade and symbol

The pipes shall be classified into 12 grades, and the symbols and the manufacturing methods thereof shall be as given in table 1.

Table 1 Symbol of grade and symbol of manufacturing method

Classification	Symbol of grade	Symbol of manufacturing method		
		Pipe manufac- turing method	Finishing method	Marking
Austenitic	SUS304TKA SUS316TKA SUS321TKA SUS347TKA SUS304TKC ^{a)} SUS316TKC ^{a)}	Seamless : S Automatic arc welding: A Laser welding : L Electric resis- tance welding : E	Hot finished : H Cold finished : C As electric resis- tance welded : G Weld working finished : B	As given in clause 11 b).
Ferritic	SUS430TKA SUS430TKC ^{a)}			
Martensitic	SUS410TKA SUS420J1TKA SUS420J2TKA SUS410TKC ^{a)}			
Note ^{a)} The manufacturing method for pipes of SUS304TKC, SUS316TKC, SUS430TKC and SUS410TKC shall be the electric resistance welding, automatic arc welding or laser welding.				