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Arc welded carbon steel pipes

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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 3457:2012** is replaced with this Standard.

However, **JIS G 3457:2012** 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 March 21, 2017.

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Arc welded carbon steel pipes

1 Scope

This Japanese Industrial Standard specifies the arc welded carbon steel pipes (hereafter referred to as “pipes”) used for piping for the steam, water, gas, air, etc. of comparatively low working pressure.

NOTE : The dimensional range covered by this Standard is generally outside diameter 355.6 mm (nominal diameter 350A or 14B) to 2 032 mm (nominal diameter 2000A or 80B).

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

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

JIS G 0584 *Ultrasonic examination for arc welded steel pipes*

JIS G 3193 *Dimensions, mass and permissible variations of hot rolled steel plates, sheets and strips*

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

JIS Z 3121 *Methods of tensile test for butt welded joints*

JIS Z 8401 *Guide to the rounding of numbers*

3 Classification and symbol

Pipes are classified into one grade. Table 1 shows the symbol of grade.

Table 1 Symbol of grade

Symbol of grade
STPY400

4 Manufacturing method

The manufacturing method of pipes shall be as follows.

- a) The pipes shall be manufactured by spiral seam or straight seam welding. In either case, the internal and external surfaces of the pipe shall be automatic submerged arc welded.
- b) The pipes shall be supplied either as-welded or as cold-expanded after welding, and shall generally not be heat treated.