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**Carbon steel tubes for cylinder barrels**

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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 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 3473:2013** is replaced with this Standard.

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## Carbon steel tubes for cylinder barrels

### 1 Scope

This Japanese Industrial Standard specifies the carbon steel tubes (hereafter referred to as tubes) used for manufacturing cylinder barrels of piston-type pneumatic or hydraulic cylinders by machining or honing the inner surfaces. This Standard generally covers the tubes in the range of 32.0 mm to 200.0 mm in inside diameter.

In addition to the items specified in the main body, the items of supplementary quality requirements which the purchaser can specify upon the agreement with the manufacturer are shown in Annex A.

### 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) 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 G 0582 *Automated ultrasonic examination of steel pipes and tubes*

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

JIS Z 8401 *Guide to the rounding of numbers*

### 3 Symbol of grade

The tubes are classified into 7 grades, and their symbols shall be as given in Table 1.

**Table 1 Symbols of grades**

Symbol of grade	Application (informative)
STC370	For machining
STC440	For honing
STC510A	For machining and honing
STC510B	For honing
STC540	For machining and honing
STC590A	For honing
STC590B	For machining