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Carbon steel tubes for cylinder barrels

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Contents

		Page
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbol of grade	1
5	Manufacturing method	2
6	Chemical composition	3
7	Mechanical properties	3
8	Dimensions, unit mass and dimensional tolerances	4
8.1	Dimensions and unit mass	4
8.2	Dimensional tolerances	5
9	Appearance	6
10	Supplementary quality requirements	7
11	Tests	7
11.1	Chemical analysis	7
11.2	Mechanical tests	7
12	Inspection and reinspection	8
12.1	Inspection	8
12.2	Reinspection	8
13	Marking	8
14	Report	9
	Annex A (normative) Supplementary quality requirements	10

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 3473** : 2018), which has been technically revised.

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Carbon steel tubes for cylinder barrels

1 Scope

This Japanese Industrial Standard specifies requirements for 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.

NOTE This Standard is generally applicable to the tubes in the range of 32.0 mm to 200.0 mm in inside diameter (see Table 6).

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 G 0582 *Automated ultrasonic examination of steel pipes and tubes*
- JIS Z 2241 *Metallic materials — Tensile testing — Method of test at room temperature*
- 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 Symbols of grade

Tubes are classified into seven grades, and the symbols of grade shall be as given in Table 1.