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Seamless steel tubes for high pressure gas cylinders

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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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 3429**:2013 is replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

Seamless steel tubes for high pressure gas cylinders

1 Scope

This Japanese Industrial Standard specifies seamless steel tubes (hereafter referred to as tubes) to be used for the manufacture of the high pressure steel gas cylinder specified in **JIS B 8230** and **JIS B 8241**.

2 Normative reference

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 B 8230 *Small type seamless steel gas cylinders*

JIS B 8241 *Seamless steel gas cylinders*

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 0561 *Method of hardenability test for steel (End quenching method)*

JIS G 0582 *Automated ultrasonic examination of steel pipes and tubes*

JIS G 0583 *Automated eddy current examination of steel pipes and tubes*

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

JIS Z 2242 *Method for Charpy pendulum impact test of metallic materials*

JIS Z 2243-1 *Brinell hardness test—Part 1: Test method*

JIS Z 2245 *Rockwell hardness test—Test method*

JIS Z 2320-1 *Non-destructive testing—Magnetic particle testing—Part 1: General principles*

3 Symbol of grade

Tubes shall be classified into five grades. The classification and the symbol of grade shall be as given in Table 1.

4 Manufacturing method

The manufacturing method shall be as follows.

a) Tubes shall be manufactured by combination of the tube manufacturing method and the finishing method which are indicated in Table 1. The symbol of manufacturing method shall be in accordance with Table 1.

b) Tubes shall normally be as manufactured without heat treatment.

c) Tubes shall be furnished with plane ends, unless otherwise specified.