

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS G 3444 : 2015

(JISF)

**Carbon steel tubes for general
structure**

ICS 23.040.10;77.140.10;77.140.75

Reference number : **JIS G 3444 : 2015 (E)**

Date of Establishment: 1961-02-01

Date of Revision: 2015-10-20

Date of Public Notice in Official Gazette: 2015-10-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Metal and Inorganic

Materials

JIS G 3444:2015, First English edition published in 2015-12

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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

© JSA 2015

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

AT

Contents

		Page
1	Scope	1
2	Normative references	1
3	Classification and symbols	1
4	Manufacturing method	2
5	Chemical composition	2
6	Mechanical properties	3
6.1	Tensile strength and yield point or proof stress	3
6.2	Elongation	4
6.3	Flattening resistance	4
6.4	Bendability	4
7	Dimensions, mass and dimensional tolerances	5
7.1	Outside diameter, wall thickness and unit mass	5
7.2	Dimensional tolerances	9
8	Appearance	10
9	Tests	11
9.1	Chemical analysis	11
9.2	Mechanical tests	11
9.3	Other tests	14
10	Inspection and reinspection	14
10.1	Inspection	14
10.2	Reinspection	14
11	Marking	15
12	Report	15
Annex A (informative)	Type of coating and coating mass for tubes manufactured from coated steel sheet or coated steel strip	16

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 3444:2010** is replaced with this Standard.

However, **JIS G 3444:2010** 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 October 19, 2016.

This **JIS** document is protected by the Copyright Law.

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.

Carbon steel tubes for general structure

1 Scope

This Japanese Industrial Standard specifies the carbon steel tubes (hereafter referred to as “tubes”), used for civil engineering and architecture such as steel towers, scaffoldings, footing piles, foundation piles, piles for landslide suppression. In application for foundation piles, however, this Standard is only applicable to welded steel tubes of outside diameter under 318.5 mm, and in application for piles for landslide suppression, to seamless steel tubes and welded steel tubes of outside diameter under 318.5 mm¹⁾.

NOTE : The dimensional range covered by this Standard is generally, outside diameter 21.7 mm to 1 016.0 mm.

Note ¹⁾ For foundation piles and piles for landslide suppression of welded steel tube of outside diameter 318.5 mm or larger, **JIS A 5525** applies.

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 G 3302 *Hot-dip zinc-coated steel sheet and strip*

JIS G 3313 *Electrolytic zinc-coated steel sheet and strip*

JIS G 3314 *Hot-dip aluminium-coated steel sheet and strip*

JIS G 3317 *Hot-dip zinc 5% aluminium alloy-coated steel sheet and strip*

JIS G 3321 *Hot-dip 55% aluminium-zinc alloy-coated steel sheet and strip*

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 symbols

The tubes shall be classified into five grades, and symbols of grade and manufacturing method shall be as given in Table 1.