



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS G 3454 : 2012

(JISF)

**Carbon steel tubes for pressure
service**

ICS 23.040.10;77.140.10;77.140.75

Reference number : JIS G 3454 : 2012 (E)

Date of Establishment: 1962-03-01

Date of Revision: 2012-06-20

Date of Public Notice in Official Gazette: 2012-06-20

Investigated by: Japanese Industrial Standards Committee
Standards Board
Technical Committee on Iron and Steel

JIS G 3454:2012, First English edition published in 2013-03

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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

© JSA 2013

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

KA/AT

Contents

	Page
Introduction.....	1
1 Scope.....	1
2 Normative references	1
3 Grade and designation	2
4 Manufacturing method	2
5 Chemical composition	3
6 Mechanical properties	3
6.1 Tensile strength, yield point or proof stress and elongation	3
6.2 Flattening resistance	4
6.3 Bendability	5
7 Zinc-coating test characteristics	5
8 Hydraulic test characteristics or nondestructive test characteristics	5
9 Dimensions, mass and dimensional tolerances	6
9.1 Dimensions and unit mass	6
9.2 Dimensional tolerances	6
10 Appearance	8
11 Tests	9
11.1 Chemical analysis	9
11.2 Mechanical test	9
11.3 Zinc-coating test	11
11.4 Hydraulic test or nondestructive test.....	11
12 Inspection and re-inspection	12
12.1 Inspection.....	12
12.2 Re-inspection	12
13 Marking.....	12
14 Report	13
Annex JA (normative) Special quality requirements	14
Annex JB (informative) Comparison table between JIS and corresponding International Standards	15

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 3454:2007** is replaced with this Standard.

However, **JIS G 3454:2007** 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 June 19th, 2013.

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

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