

Translated and Published by Japanese Standards Association

JIS G 3452: 2019

(JISF)

Carbon steel pipes for ordinary piping

ICS 23.040.10;77.140.75

 $Reference\ number:\ JIS\ G\ 3452:2019\ (E)$

G 3452:2019

Date of Establishment: 1962-03-01

Date of Revision: 2019-06-20

Date of Public Notice in Official Gazette: 2019-06-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Metal and Inorganic

Materials

JIS G 3452:2019, First English edition published in 2020-03

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 2020

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

Contents

	Page
1	Scope1
2	Normative references — 1
3	Symbol of grade ·································1
4	Manufacturing process ———————————————————————————————————
5	Chemical composition
6 6.1 6.2 6.3	Mechanical properties3Tensile strength and elongation3Flattening property4Bendability4
7	Uniformity of zinc-coating — 4
8	Hydraulic test characteristics or nondestructive test characteristics 4
9	Dimensions, dimensional tolerances and unit mass5
10	Appearance 7
11 11.1 11.2 11.3 11.4	Tests 7 Chemical analysis 7 Mechanical tests 7 Zinc-coating test 9 Hydraulic test or nondestructive test 9
12 12.1 12.2	Inspection and reinspection10Inspection10Reinspection10
13	Marking
14	Report

G 3452: 2019

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 3452**:2016 is replaced with this Standard.

However, **JIS G 3452**:2016 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 19, 2020.

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 pipes for ordinary piping

JIS G 3452: 2019

1 Scope

This Japanese Industrial Standard specifies the requirements for carbon steel pipes (hereafter referred to as pipes) used for the conveyance of steam, water (except public water supply service), oil, gas, air, etc. at comparatively low working pressures. This Standard is applicable to pipes with an outside diameter of 10.5 mm to 508.0 mm.

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 B 0203 Taper pipe threads

JIS B 0253 Gauges for taper pipe threads

JIS B 2301 Screwed type malleable cast iron pipe fittings

JIS B 2302 Screwed type steel pipe fittings

JIS G 0320 Standard test method for heat analysis of steel products

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 G 0583 Automated eddy current examination of steel pipes and tubes

JIS H 0401 Test methods for hot dip galvanized coatings

JIS H 2107 Zinc ingots

JIS H 8641 Hot dip galvanized coatings

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

3 Symbol of grade

This Standard covers the following one grade of pipe, which is designated by the symbol as shown in Table 1.