

# JIS

JAPANESE  
INDUSTRIAL  
STANDARD

Translated and Published by  
Japanese Standards Association

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JIS G 3456 : 2024

(JISF)

**Carbon steel pipes for high temperature  
service**

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ICS 23.040.10;77.140.10;77.140.75

Reference number: JIS G 3456:2024 (E)

G 3456 : 2024

Date of Establishment: 1962-03-01

Date of Revision: 2024-04-22

Date of Public Notice in Official Gazette: 2024-04-22

Developed by: The Japan Iron and Steel Federation

Investigated by: The Japan Iron and Steel Federation, Standardization  
Center

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JIS G 3456 : 2024, First English edition published in 2024-08

Translated and published by: Japanese Standards Association  
Mita Avanti, 3-11-28, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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In the event of any doubts arising as to the contents,  
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Printed in Japan

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## Contents

	Page
Introduction .....	1
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	2
4 Symbol of grade .....	2
5 Manufacturing method .....	2
6 Chemical composition .....	3
7 Mechanical properties .....	4
7.1 Tensile strength, yield point or proof stress, and elongation .....	4
7.2 Flattening property .....	5
7.3 Bendability .....	5
8 Hydrostatic test characteristics or nondestructive test characteristics .....	6
9 Dimensions, unit mass and dimensional tolerances .....	7
9.1 Dimensions and unit mass .....	7
9.2 Dimensional tolerances .....	10
10 Appearance .....	10
11 Supplementary quality requirements .....	11
12 Tests .....	11
12.1 Chemical analysis .....	11
12.2 Mechanical tests .....	11
12.3 Hydrostatic test .....	13
12.4 Nondestructive test .....	13
13 Inspection and reinspection .....	14
13.1 Inspection .....	14
13.2 Reinspection .....	14
14 Marking .....	14
15 Information to be supplied by the purchaser .....	15
16 Report .....	15
Annex JA (normative) Supplementary quality requirements .....	16
Annex JB (informative) Comparison table between JIS and corresponding International Standards .....	18

## 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 3456** : 2019), which has been technically revised.

However, **JIS G 3456** : 2019 may be applied in the **JIS** mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 21 April 2025.

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# Carbon steel pipes for high temperature service

## Introduction

This Japanese Industrial Standard has been prepared based on **ISO 9329-2** : 1997, Edition 1, and **ISO 9330-2** : 1997, Edition 1, with some modifications of the technical contents.

Annex JA is unique to **JIS** and not given in the corresponding International Standards. The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standards. A list of modifications with the explanations is given in Annex JB.

## 1 Scope

This Standard specifies requirements for the carbon steel pipes (hereafter referred to as pipes) used mainly for service at temperatures over 350 °C.

NOTE 1 The dimensional range covered by this Standard is generally outside diameter 10.5 mm (nominal diameter 6A or 1/8B) to 660.4 mm (nominal diameter 650A or 26B).

NOTE 2 The International Standards corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 9329-2 : 1997 *Seamless steel tubes for pressure purposes — Technical delivery conditions — Part 2: Unalloyed and alloyed steels with specified elevated temperature properties*

ISO 9330-2 : 1997 *Welded steel tubes for pressure purposes — Technical delivery conditions — Part 2: Electric resistance and induction welded unalloyed and alloyed steel tubes with specified elevated temperature properties* (overall evaluation: MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

## 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*