

# JIS

JAPANESE  
INDUSTRIAL  
STANDARD

Translated and Published by  
Japanese Standards Association

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**JIS H 4650** : 2016

(JIS/JSA)

**Titanium and titanium alloys—Bars**

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ICS 77.120.50;77.150.50

Reference number : **JIS H 4650 : 2016 (E)**

H 4650 : 2016

Date of Establishment: 1964-07-01

Date of Revision: 2016-05-20

Date of Public Notice in Official Gazette: 2016-05-20

Investigated by: Japanese Industrial Standards Committee  
Standards Board for ISO area  
Technical Committee on Metal and Inorganic  
Materials

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JIS H 4650:2016, First English edition published in 2016-11

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

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Printed in Japan

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## 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 Titanium Society (JTS)/Japanese Standards Association (JSA) 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 H 4650**:2012 is replaced with this Standard.

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# Titanium and titanium alloys—Bars

## 1 Scope

This Japanese Industrial Standard specifies bars of titanium and titanium alloys (hereafter referred to as “bars”). It is applicable to bars with square, rectangular and regular hexagonal sections as well as those with circular section. Bars with rectangular section, to which this Standard applies, have a thickness exceeding one-tenth of the width.

## 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 H 0321 *General rules for inspection of non-ferrous metal materials*

JIS H 1610 *Titanium and titanium alloys—Sampling methods*

JIS H 1612 *Methods for determination of nitrogen in titanium and titanium alloys*

JIS H 1614 *Methods for determination of iron in titanium and titanium alloys*

JIS H 1617 *Methods for determination of carbon in titanium and titanium alloys*

JIS H 1619 *Titanium and titanium alloys—Determination of hydrogen content*

JIS H 1620 *Methods for determination of oxygen in titanium and titanium alloys*

JIS H 1621 *Methods for determination of palladium in titanium alloys*

JIS H 1622 *Titanium alloys—Methods for determination of aluminium*

JIS H 1624 *Titanium alloys—Method for determination of vanadium*

JIS H 1625 *Titanium alloy—Method for determination of lanthanum, cerium, praseodymium and neodymium*

JIS H 1626 *Titanium alloys—Methods for determination of sulfur*

JIS H 1630 *Method for atomic emission spectrometric analysis of titanium*

JIS H 1631 *Titanium alloys—Method for X-ray fluorescence spectrometric analysis*

JIS H 1632-2 *Titanium—ICP atomic emission spectrometry—Part 2: Determination of palladium, manganese, iron, magnesium, silicon, aluminium, vanadium, nickel, chromium, tin, copper, molybdenum, zirconium, niobium, tantalum, cobalt and yttrium*

JIS H 4670 *Titanium and titanium alloys—Wires*

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

JIS Z 2243 *Brinell hardness test—Test method*

JIS Z 2244 *Vickers hardness test—Test method*