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**JIS H 3250** : 2010

(JCBA/JSA)

**Copper and copper alloy rods and  
bars**

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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 Japan Copper and Brass Association (JCBA)/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 3250:2006** has been replaced with this Standard.

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Hitachi Alloy, Ltd.	1-7 Awazi-tyo, Kanda, Tiyoda-ku, Tokyo-to	Patent number 3485502	2003.10.24	Lead-less free-cutting copper alloy material
SAN-ETSU METAL Co. Ltd.	1-4-1 Yosihisa Takaoka-si, Toyama-ken	Patent number 3966896	2007.06.08	Brass material
Mitsubishi Shindoh Co. Ltd.	4-7-35 Kita-sinagawa, Sinagawa-ku, Tokyo-to	Patent number 3734372	2005.10.28	Lead-less free-cutting copper alloy
		Patent number 3917304	2007.02.16	Free-cutting copper alloy
Mitsubishi Shindoh Co. Ltd.	4-7-35 Kita-sinagawa, Sinagawa-ku, Tokyo-to	Patent number 2047807	1996.04.25	Corrosion resisting copper-base alloy material
TOYO VALVE Co. Ltd.	5125 Sigesakubo Aza, Kanazawa, Chino-si, Nagano-ken			
KITZ METAL WORKS Corporation	7377 Miyagawa, Tino-si, Nagano-ken	Patent number 4184357	2008.09.12	Lead-less free-cutting brass alloy and its manufacturing method
		Patent number 4266039	2009.02.27	Manufacturing method of lead-less free-cutting brass alloy
KITZ Corporation	1-10-1 Nakase, Mihama-ku, Tiba-shi, Tiba-ken	Patent number 2841269	1998.10.23	Copper-based alloy excellent in corrosion resistance and machinability and valve parts using relevant alloy
		Patent number 2841270	1998.10.23	Copper-based alloy excellent in corrosion resistance and hot formability and valve parts using relevant alloy
		Patent number 3732305	2005.10.21	Copper base alloy excellent in corrosion resistance, hot formability and stress corrosion cracking resistance and its production method
		Patent number 3761741	2006.01.20	Brass, and product using this alloy
DOWA Metaltech Co. Ltd.	4-14-1 Sotokanda, Tiyoda-ku, Tokyo-to	Patent number 3824944	2006.07.07	Copper alloy having excellent stress corrosion cracking resistance and dezincification resistance and production method thereof

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The “patent rights” as mentioned here include patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public.

# Copper and copper alloy rods and bars

## Introduction

This Japanese Industrial Standard was established in 1977 and has gone through six revisions to this day, the most recent of which has taken place in 2006. The revision at this time is made for the purpose to correspond to the market demands afterwards and to standardize the lead-less/cadmium-less free-cutting brass bars and the dezincification resistant free-cutting brass bars.

The corresponding International Standard has not been established at this point.

## 1 Scope

This Standard specifies the extended copper and copper alloy rods and bars having round, regular hexagonal, square, rectangular or rounded regular hexagonal section (hereafter referred to as “bars”).

NOTE 1 “Bars” refers to the extended solid articles of a uniform section along the all length and supplied in a straight form.

NOTE 2 “Rounded regular hexagonal” refers to the shape of a regular hexagon with corners rounded along the circumference of a circle having a diameter smaller than that of the circumscribing circle of the hexagon.

## 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) listed below shall be applied.

JIS B 8607 *Flare type and brazing type fittings for refrigerants*

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

JIS H 0500 *Glossary of terms used in wrought copper and copper alloys*

JIS H 0505 *Measuring methods for electrical resistivity and conductivity of non-ferrous materials*

JIS H 1051 *Methods for determination of copper in copper and copper alloys*

JIS H 1052 *Methods for determination of tin in copper and copper alloys*

JIS H 1053 *Methods for determination of lead in copper and copper alloys*

JIS H 1054 *Methods for determination of iron in copper and copper alloys*

JIS H 1055 *Methods for determination of manganese in copper and copper alloys*

JIS H 1056 *Methods for determination of nickel in copper and copper alloys*

JIS H 1057 *Methods for determination of aluminium in copper and copper alloys*

JIS H 1058 *Methods for determination of phosphorus in copper and copper alloys*

JIS H 1061 *Methods for determination of silicon in copper and copper alloys*

JIS H 1062 *Methods for determination of zinc in copper and copper alloys*