

Translated and Published by Japanese Standards Association

JIS B 1057: 2001

Mechanical properties of non-ferrous metal fasteners

 $\textbf{ICS} \hspace{0.1cm} 21.040.01; \hspace{0.1cm} 21.060.10; \hspace{0.1cm} 21.060.20$

Descriptors: threaded components, fasteners, copper alloys, aluminium alloys, copper, strength of materials, mechanical behaviour of materials

Reference number: JIS B 1057: 2001 (E)

B 1057:2001

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 in accordance with the Industrial Standardization Law. Consequently **JIS B 1057**: 1994 is replaced with **JIS B 1057**: 2001.

In this revision, this Standard has been subjected to the formal revision that the new specification is added to **JIS B 1181**: 1993 as Annex 2, following the revision of **JIS B 1052** on January 20, 1998 and the withdrawal of Annex 3 to **JIS B 1052** dated on December 31, 2000.

Date of Establishment: 1989-01-01

Date of Revision: 2001-03-20

Date of Public Notice in Official Gazette: 2001-03-21

Investigated by: Japanese Industrial Standards Committee

Divisional Council on Machine Elements

JIS B 1057:2001, First English edition published in 2002-04

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.

© ISA 2002

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

Mechanical properties of non-ferrous metal fasteners

Introduction This Japanese Industrial Standard has been made based on ISO 8839 Mechanical properties of fasteners—Bolts, screws, studs and nuts made of nonferrous metals published in 1986 as the first edition, without changing the technical contents and adding some items not specified in the corresponding International Standard. The revision at this time has been made for the sake of formality as a result of the revision of JIS B 1052 on January 20, 1998 and the withdrawal of Annex 3 (Nuts for property classes 4T to 12T) to JIS B 1052 on December 31, 2000 followed by the development of a new standard as Annex 2 to JIS B 1181.

The parts covered by half tone dot mesh () in this Standard are the matters not specified in the corresponding International Standard.

- 1 Scope This Japanese Industrial Standard specifies the mechanical properties of bolts (including studs), machine screws and nuts made of non-ferrous metals such as copper, copper alloys and aluminium alloys and conforming to the requirements for application given in Table 1(1) and the test and inspection methods and the marking of them.
 - Note (1) The bolts, machine screws and nuts made of non-ferrous metals which apply in this Standard are referred to hereafter as "bolts, machine screws and nuts" and a generic term of them as "non-ferrous metal fasteners".

Table 1 Requirements for application of non-ferrous metal fasteners

Items (to be) applied	Requirements for application
Type of threads	In accordance with JIS B 0205 .
Range of nominal thread diameter	M1.6 to M39.
Material	Copper, copper alloys and aluminium alloys

Remarks 1 The International Standard corresponding to this Standard is as follows.

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

ISO 8839: 1986 Mechanical properties of fasteners—Bolts, screws, studs and nuts made of non-ferrous metals (MOD)

2 This Standard which specifies the mechanical properties at ordinary temperature of the non-ferrous metal fasteners for general use does not apply to those with special property requirements such as corrosion resistance and electrical conductivity.

JIS B 1057: 2001