

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS B 1043 : 1993

(ISO 6157-3 : 1988)

(Reaffirmed in 1998)

**Fasteners—
Surface discontinuities—
Part 3 : Bolts, screws and studs
for special requirements**

ICS 21.060.10

Descriptors : threads, bolts, studs (fasteners), surface defects

Reference number : JIS B 1043 : 1993 (E)

B 1043 : 1993 (ISO 6157-3 : 1988)

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

Date of Establishment: 1993-07-01

Date of Reaffirmation: 1998-03-20

Date of Public Notice in Official Gazette: 1998-03-20

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Machine Elements

JIS B 1043:1993, First English edition published in 2000-06

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,
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Printed in Japan

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Fasteners—Surface discontinuities— Part 3 : Bolts, screws and studs for special requirements

Foreword for Japanese Industrial Standard

This Japanese Industrial Standard has been prepared based on **ISO 6157-3** (*Fasteners—Surface discontinuities—Part 3 : Bolts, screws and studs for special requirements*) issued in 1988 as the first edition without changing the technical contents.

The “Informative references” underlined with dots in this Standard show the matters not specified in the original International Standard.

1 Scope

1.1 This Standard establishes limits for various types of surface discontinuities on bolts, screws and studs for special requirements.

It applies to bolts, screws and studs with

- nominal thread diameters 5 mm and larger;
- product grades A and B;
- nominal lengths $l \leq 10d$ (or longer if specified)
- property class 12.9;
- property classes 8.8, 9.8 and 10.9 when specified in product standards or agreed between supplier and purchaser.

1.2 Where the permissible limits for surface discontinuities indicated in clause 3 occur, the minimum values for the mechanical and functional properties specified in **ISO 898-1** should still be met.

When fatigue strength requirements are specified, the fatigue strength should not be lower than that obtained on bolts without defects taken from the same lot.

Informative reference : ISO 898-1 is equivalent to JIS B 1051 *Mechanical properties of steel bolts and screws.*

- Notes
- 1 The figures in clause 3 are examples only. They apply correspondingly also to other types of bolts, screws and studs.
 - 2 The individual figures show the surface discontinuities exaggerated in some cases for clarity.

2 References

- ISO 468 *Surface roughness—Parameters, their values and general rules for specifying requirements*
- ISO 898-1 *Mechanical properties of fasteners—Part 1 : Bolts, screws and studs*