

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS B 1125 : 2015

(JFRI/JSA)

Self drilling tapping screws

ICS 21.060.10

Reference number : JIS B 1125 : 2015 (E)

PROTECTED BY COPYRIGHT

10 S

B 1125 : 2015

Date of Establishment: 1984-02-01

Date of Revision: 2015-12-21

Date of Public Notice in Official Gazette: 2015-12-21

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Machine Elements

JIS B 1125 : 2015, First English edition published in 2016-03

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

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2016

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

HN

PROTECTED BY COPYRIGHT

Contents

| | Page |
|--|------|
| Introduction | 1 |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms and definitions | 1 |
| 4 Classification | 2 |
| 5 Shape and dimensions | 2 |
| 6 Material and heat treatment | 6 |
| 7 Metallurgical properties | 7 |
| 7.1 Hardness | 7 |
| 7.2 Case depth | 7 |
| 7.3 Microstructure | 8 |
| 8 Mechanical properties | 8 |
| 8.1 Thread forming capability | 8 |
| 8.2 Torsional strength | 8 |
| 9 Surface condition | 9 |
| 10 Surface treatment | 9 |
| 11 Inspection | 9 |
| 11.1 Shape and dimensions inspection | 9 |
| 11.2 Metallurgical properties inspection | 9 |
| 11.3 Mechanical properties inspection | 10 |
| 11.4 Surface condition inspection | 11 |
| 11.5 Acceptance inspection | 11 |
| 11.6 Inspection on geometrical tolerance | 12 |
| 11.7 Surface treatment inspection | 12 |
| 12 Designation of products | 12 |
| 13 Marking | 12 |
| 13.1 Marking on product | 12 |
| 13.2 Marking on package | 12 |

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 Research Institute for Screw Threads and Fasteners (JFRI)/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 B 1125:2003** is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

Self drilling tapping screws

Introduction

This Japanese Industrial Standard was established in 1984 and has gone through four revisions. The revision at this time aims to respond to the changes in manufacturing and business dealings of the head tapping screw products that have taken place subsequent to the last revision made in 2003.

No corresponding International Standard has been established at this point.

1 Scope

This Standard specifies the characteristics of steel and martensitic stainless steel self drilling tapping screws.

NOTE 1 Steel and martensitic stainless steel self drilling tapping screws specified in this Standard are hereafter referred to as “steel self drilling tapping screws” and “stainless steel self drilling tapping screws”, respectively, and generically referred to as “self drilling tapping screws”.

NOTE 2 The self drilling tapping screws shall have a gimlet point.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The following standards contain provisions which, through reference in this text, constitute provisions of this Standard.

JIS B 0101 *Screw threads and fasteners — Vocabulary*

JIS B 1012 *Cross recesses for screws*

JIS B 1021 *Tolerances for fasteners — Part 1 : Bolts, screws, studs and nuts — Product grades A, B and C*

JIS B 1044 *Fasteners — Electroplated coatings*

JIS B 1059 *Drilling screws with tapping screw thread — Mechanical and functional properties*

JIS B 1071 *Fasteners — Methods of verification for size and geometry*

JIS B 1091 *Fasteners — Acceptance inspection*

JIS G 3141 *Cold-reduced carbon steel sheet and strip*

JIS G 4315 *Stainless steel wires for cold heading and cold forging*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS B 0101**, and the following apply.