

# Mechanical properties of corrosion-resistant stainless steel fasteners

## Part 3: Set screws and similar fasteners not under tensile stress

ICS 21.060.10

# National foreword

This British Standard is the UK implementation of EN ISO 3506-3:2009. It supersedes BS EN ISO 3506-3:1998 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee FME/9/1, Mechanical properties of fasteners.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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English Version

**Mechanical properties of corrosion-resistant stainless steel  
fasteners - Part 3: Set screws and similar fasteners not under  
tensile stress (ISO 3506-3:2009)**

Caractéristiques mécaniques des éléments de fixation en  
acier inoxydable résistant à la corrosion - Partie 3: Vis sans  
tête et éléments de fixation similaires non soumis à des  
contraintes de traction (ISO 3506-3:2009)

Mechanische Eigenschaften von Verbindungselementen  
aus nichtrostenden Stählen - Teil 3: Gewindestifte und  
ähnliche nicht auf Zug beanspruchte Verbindungselemente  
(ISO 3506-3:2009)

This European Standard was approved by CEN on 24 October 2009.

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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Foreword

This document (EN ISO 3506-3:2009) has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with Technical Committee CEN/TC 185 "Fasteners", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2010, and conflicting national standards shall be withdrawn at the latest by May 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 3506-3:1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

### Endorsement notice

The text of ISO 3506-3:2009 has been approved by CEN as a EN ISO 3506-3:2009 without any modification.

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## Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 3506-3 was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 1, *Mechanical properties of fasteners*.

This second edition cancels and replaces the first edition (ISO 3506-3:1997), which has been technically revised.

ISO 3506 consists of the following parts, under the general title *Mechanical properties of corrosion-resistant stainless steel fasteners*:

- *Part 1: Bolts, screws and studs*
- *Part 2: Nuts*
- *Part 3: Set screws and similar fasteners not under tensile stress*
- *Part 4: Tapping screws*

## Introduction

In the preparation of this part of ISO 3506, special attention has been given to the fundamentally different property characteristics of the stainless steel fastener grades compared with those of carbon steel and low-alloy steel fasteners. Austenitic stainless steels are strengthened only by cold working and consequently the components do not have as homogeneous local material properties as hardened and tempered parts. These special features have been recognized in the elaboration of the hardness classes and the test procedures for mechanical properties.

