

DIN EN ISO 3506-2**DIN**

ICS 21.060.20

Supersedes
DIN EN ISO 3506-2:2010-04**Fasteners –**

**Mechanical properties of corrosion-resistant stainless steel fasteners –
Part 2: Nuts with specified grades and property classes (ISO 3506-2:2020);
English version EN ISO 3506-2:2020,
English translation of DIN EN ISO 3506-2:2020-08**

Mechanische Verbindungselemente –

Mechanische Eigenschaften von Verbindungselementen aus korrosionsbeständigen nichtrostenden Stählen –

Teil 2: Muttern mit festgelegten Stahlsorten und Festigkeitsklassen (ISO 3506-2:2020);
Englische Fassung EN ISO 3506-2:2020,
Englische Übersetzung von DIN EN ISO 3506-2:2020-08

Fixations –

Caractéristiques mécaniques des fixations en acier inoxydable résistant à la corrosion –
Partie 2: Écrous de grades et classes de qualité spécifiés (ISO 3506-2:2020);
Version anglaise EN ISO 3506-2:2020,
Traduction anglaise de DIN EN ISO 3506-2:2020-08

Document comprises 38 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.



A comma is used as the decimal marker.

National foreword

This document (EN ISO 3506-2:2020) has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with Technical Committee CEN/TC 185 "Fasteners" (Secretariat: BSI, United Kingdom).

The responsible German body involved in its preparation was *DIN-Normenausschuss Mechanische Verbindungselemente* (DIN Standards Committee Fasteners), Working Committee NA 067-00-04 AA "Fasteners made of stainless steels and non-ferrous metals".

The DIN documents corresponding to the international documents referred to in this document are as follows:

ISO 68-1	DIN ISO 68-1
ISO 261	DIN ISO 261
ISO 262	DIN ISO 262
ISO 286-2	DIN EN ISO 286-2
ISO 898-1	DIN EN ISO 898-1
ISO 898-2	DIN EN ISO 898-2
ISO 965-1	DIN ISO 965-1
ISO 965-2	DIN ISO 965-2
ISO 1891-4	DIN EN ISO 1891-4
ISO 3506-1	DIN EN ISO 3506-1
ISO 4032	DIN EN ISO 4032
ISO 4033	DIN EN ISO 4033
ISO 6506-1	DIN EN ISO 6506-1
ISO 6507-1	DIN EN ISO 6507-1
ISO 6508-1	DIN EN ISO 6508-1
ISO 6892-1	DIN EN ISO 6892-1
ISO 7500-1	DIN EN ISO 7500-1
ISO 16048	DIN EN ISO 16048
ISO 16228	DIN EN ISO 16228
ISO 16426	DIN EN ISO 16426

For current information on this document, please go to DIN's website (www.din.de) and search for the document number in question.

Amendments

This standard differs from DIN EN ISO 3506-2:2010-04 as follows:

- a) the structure and content of the standard have been brought in line with ISO 898-2;
- b) operational temperature ranges have been rendered more precise (Clause 1);
- c) normative references have been updated;
- d) information relating to nut styles has been included (5.1);
- e) the design of stainless steel bolt and nut assemblies has been added (5.2);

- f) duplex (austenitic-ferritic) stainless steels for property classes 70, 80 and 100 have been added (Figure 1);
- g) steel grade A8 has been included;
- h) property class 100 for austenitic stainless steel grades has been added;
- i) finish has been improved (7.3);
- j) calculated proof load values (Table 5 to Table 8) and rounding rules have been added;
- k) requirements and guidance for inspection procedures have been added (Clause 9);
- l) test methods for proof load and hardness have been improved on the basis of ISO 898-2 (Clause 10);
- m) nut marking and labelling, especially for thin nuts with reduced loadability, have been added (Clause 11);
- n) design principles for stainless steel nuts have been added (Annex A);
- o) thread dimensions of the test mandrel for proof load have been added (Annex B);
- p) annexes concerning several parts of the ISO 3506 standards series have been removed and are now included in a new document (ISO 3506-6);
- q) the Bibliography has been updated;
- r) the standard has been editorially revised (with a focus on ISO 898-2).

Previous editions

DIN 267-11: 1968-05, 1977-02, 1980-01

DIN ISO 3506: 1992-12

DIN EN ISO 3506-2: 1998-03, 2010-04

National Annex NA (informative)

Bibliography

DIN EN ISO 286-2, *Geometrical product specification (GPS) — ISO code system for tolerances on linear sizes — Part 2: Tables of standard tolerance classes and limit deviations for holes and shafts*

DIN EN ISO 898-1, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread*

DIN EN ISO 898-2, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Nuts with specified property classes — Coarse thread and fine pitch thread*

DIN EN ISO 1891-4 *Fasteners — Vocabulary — Part 4: Controls, inspection, delivery, acceptance and quality*

DIN EN ISO 3506-1, *Mechanical properties of corrosion-resistant stainless steel fasteners — Part 1: Bolts, screws and studs*

DIN EN ISO 4032, *Hexagon regular nuts (style 1) — Product grades A and B*

DIN EN ISO 4033, *Hexagon high nuts (style 2) — Product grades A and B*

DIN EN ISO 6506-1, *Metallic materials — Brinell hardness test — Part 1: Test methods*

DIN EN ISO 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method*

DIN EN ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method*

DIN EN ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature*

DIN EN ISO 7500-1, *Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system*

DIN EN ISO 16048, *Passivation of corrosion-resistant stainless-steel fasteners*

DIN EN ISO 16228, *Metallic products — Types of inspection documents*

DIN EN ISO 16426, *Fasteners — Quality assurance system*

DIN ISO 68-1, *ISO general purpose metric screw threads — Basic profile — Part 1: Metric screw threads*

DIN ISO 261, *ISO general purpose metric screw threads — General plan*

DIN ISO 262, *ISO general purpose metric screw threads — Selected sizes for screws, bolts and nuts*

DIN ISO 965-1, *ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data*

DIN ISO 965-2, *ISO general purpose metric screw threads — Tolerances — Part 2: Limits of sizes for general purpose external and internal screw threads — Medium quality*

April 2020

ICS 21.060.20

Supersedes EN ISO 3506-2:2009

English Version

Fasteners -
Mechanical properties of corrosion-resistant stainless steel fasteners -
Part 2: Nuts with specified grades and property classes
(ISO 3506-2:2020)

Fixations -
Caractéristiques mécaniques des fixations en acier
inoxydable résistant à la corrosion -
Partie 2: Écrous de grades et classes de qualité spécifiés
(ISO 3506-2:2020)

Mechanische Verbindungselemente -
Mechanische Eigenschaften von Verbindungselementen aus
korrosionsbeständigen nichtrostenden Stählen -
Teil 2: Muttern mit festgelegten Stahlsorten und
Festigkeitsklassen (ISO 3506-2:2020)

This European Standard was approved by CEN on 28 March 2020.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels