SLOVENSKI STANDARD
SIST EN ISO 683-17:2023

01-december-2023

Toplotno obdelana jekla, legirana in avtomatna jekla - 17. del: Jekla za krogljične in valjčne ležaje (ISO 683-17:2023)

Heat-treated steels, alloy steels and free-cutting steels - Part 17: Ball and roller bearing steels (ISO 683-17:2023)

Für eine Wärmebehandlung bestimmte Stähle, legierte Stähle und Automatenstähle - Teil 17: Wälzlagerstähle (ISO 683-17:2023)

Aciers pour traitement thermique, aciers alliés et aciers pour décolletage - Partie 17: Aciers pour roulements (ISO 683-17:2023)

Ta slovenski standard je istoveten z: **EN ISO 683-17:2023**

ICS:

21.100.20	Kotalni ležaji	Rolling bearings
77.140.10	Jekla za toplotno obdelavo	Heat-treatable steels
77.140.20	Visokokakovostna jekla	Stainless steels

SIST EN ISO 683-17:2023 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 683-17

October 2023

ICS 21.100.20; 77.140.10

Supersedes EN ISO 683-17:2014

English Version

Heat-treated steels, alloy steels and free-cutting steels - Part 17: Ball and roller bearing steels (ISO 683-17:2023)

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This European Standard was approved by CEN on 5 September 2023.

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

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

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European foreword

This document (EN ISO 683-17:2023) has been prepared by Technical Committee ISO/TC 17 "Steel" in collaboration with Technical Committee CEN/TC 459/SC 5 “Steels for heat treatment, alloy steels, free-cutting steels and stainless steels” 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of an identical text or by endorsement, at the latest by April 2024, and conflicting national standards shall be withdrawn at the latest by April 2024.

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

This document supersedes EN ISO 683-17:2014.

Any feedback and questions on this document should be directed to the users’ national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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Endorsement notice

The text of ISO 683-17:2023 has been approved by CEN as EN ISO 683-17:2023 without any modification.

INTERNATIONAL STANDARD

ISO 683-17

Fourth edition
2023-09

Heat-treatable steels, alloy steels and free-cutting steels —

Part 17: Ball and roller bearing steels

Aciers pour traitement thermique, aciers alliés et aciers pour décolletage —

Partie 17: Aciers pour roulements

Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 4, *Heat treatable and alloy steels,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 459/SC 5, *Steels for heat treatment, alloy steels, free-cutting steels and stainless steels,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 683-17:2014), which has been technically revised.

The main changes are as follows:

— induction hardening steel 50CrMo4 and stainless steel X30CrMoN15-1 were added;

— requirements for Ca and Ti content have been added for through-hardening bearing steels;

— requirements for O content have been further restricted for through-hardening and induction-hardening bearing steels;

— option for H content for premium bearing steels has been added for through-hardening, case-hardening and induction-hardening bearing steels;

— option for verification of microscopic inclusions in Table A.1 for through-hardening bearing steels has been revised.

A list of all parts in the ISO 683 series can be found on the ISO website.

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