

DIN EN ISO 683-3



ICS 77.140.10; 77.140.20

Supersedes
DIN EN ISO 683-3:2019-04

**Heat-treatable steels, alloy steels and free-cutting steels –
Part 3: Case-hardening steels (ISO 683-3:2022);
English version EN ISO 683-3:2022,
English translation of DIN EN ISO 683-3:2022-06**

Für eine Wärmebehandlung bestimmte Stähle, legierte Stähle und Automatenstähle –
Teil 3: Einsatzstähle (ISO 683-3:2022);
Englische Fassung EN ISO 683-3:2022,
Englische Übersetzung von DIN EN ISO 683-3:2022-06

Aciers pour traitement thermique, aciers alliés et aciers pour décolletage –
Partie 3: Aciers pour cémentation (ISO 683-3:2022);
Version anglaise EN ISO 683-3:2022,
Traduction anglaise de DIN EN ISO 683-3:2022-06

Document comprises 46 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 683-3:2022) has been prepared by Technical Committee ISO/TC 17 “Steel” in collaboration with Technical Committee CEN/TC 459 “ECISS — European Committee for Iron and Steel Standardization”, Subcommittee SC 5 “Steels for heat treatment, alloy steels, free-cutting steels and stainless steels” (Secretariat: DIN, Germany).

The responsible German body involved in its preparation was *DIN-Normenausschuss Eisen und Stahl* (DIN Standards Committee Iron and Steel), Subcommittee NA 021-00-05-01 UA “Non-alloy and alloy mechanical engineering steels”.

This document specifies the technical delivery conditions for case hardening steels.

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

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

ISO 148-1	DIN EN ISO 148-1
ISO 377	DIN EN ISO 377
ISO 4885	DIN EN ISO 4885
ISO 6506-1	DIN EN ISO 6506-1
ISO 6508-1	DIN EN ISO 6508-1
ISO 6892-1	DIN EN ISO 6892-1
ISO 9443	DIN EN ISO 9443
ISO 14284	DIN EN ISO 14284

Amendments

This standard differs from DIN EN ISO 683-3:2019-04 as follows:

- a) steel grades 23MnCrMo5-5-4 and 17NiCrMoS6-4 have been added;
- b) the lower silicon content in Table 3 has been deleted and replaced by a new option A.4 in Annex A;
- c) the standard has been editorially revised.

Previous editions

DIN 1661: 1924-09, 1929-06
DIN 1662: 1928-07, 1930-06
DIN 1662 Supplement 3: 1932-05
DIN 1663: 1936-05, 1939x-12
DIN 1663 Supplement 3: 1937-02, 1940-08
DIN 1663 Supplement 4: 1937-02, 1940-08
DIN 1664: 1941-05
DIN 1666: 1943-11
DIN 17210: 1951-12, 1959-01, 1969-12, 1986-09
DIN EN 10084: 1998-06, 2008-06
DIN EN ISO 683-3: 2018-09, 2019-04

National Annex NA (informative)

Bibliography

DIN EN ISO 148-1, *Metallic materials — Charpy pendulum impact test — Part 1: Test method (ISO 148-1)*

DIN EN ISO 377, *Steel and steel products — Location and preparation of samples and test pieces for mechanical testing body (ISO 377)*

DIN EN ISO 4885, *Ferrous materials — Heat treatments — Vocabulary (ISO 4885)*

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

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

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

DIN EN ISO 9443, *Surface quality classes for hot-rolled round bars and rods (ISO 9443)*

DIN EN ISO 14284, *Steel and iron — Sampling and preparation of samples for the determination of chemical composition body (ISO 14284)*

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English Version

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Teil 3: Einsatzstähle
(ISO 683-3:2022)

This European Standard was approved by CEN on 18 January 2022.

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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.

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

Contents		Page
European foreword		4
Foreword		6
1	Scope	7
2	Normative references	7
3	Terms and definitions	8
4	Classification and designation	8
4.1	Classification	8
4.2	Designation	9
5	Information to be supplied by the purchaser	9
5.1	Mandatory information	9
5.2	Options and/or supplementary or special requirements	9
5.3	Ordering example	9
6	Manufacturing process	10
6.1	General	10
6.2	Deoxidation	10
6.3	Heat-treatment condition and surface condition at delivery	10
6.3.1	Normal condition at delivery	10
6.3.2	Particular heat-treatment condition	10
6.3.3	Particular surface conditions	10
6.4	Traceability of the cast	10
7	Requirements	10
7.1	Chemical composition, hardness and hardenability	10
7.1.1	General	10
7.1.2	Hardenability	11
7.1.3	Chemical composition	11
7.2	Machinability	11
7.3	Cold shearability	11
7.4	Grain size	11
7.5	Non-metallic inclusions	12
7.5.1	Microscopic inclusions	12
7.5.2	Macroscopic inclusions	12
7.6	Internal soundness	12
7.7	Surface condition	12
7.8	Shape, dimensions and tolerances	12
8	Inspection	13
8.1	Testing procedures and types of documents	13
8.2	Frequency of testing	13
8.3	Tests to be carried out for specific inspection	13
8.3.1	General	13
8.3.2	Visual and dimensional inspection	13