
Železove zlitine - Toplotna obdelava - Slovar (ISO/DIS 4885:2025)

Ferrous materials - Heat treatments - Vocabulary (ISO/DIS 4885:2025)

Eisenwerkstoffe - Wärmebehandlung - Begriffe (ISO/DIS 4885:2025)

Matériaux ferreux - Traitements thermiques - Vocabulaire (ISO/DIS 4885:2025)

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Ferrous materials — Heat treatments — Vocabulary

Matériaux ferreux — Traitements thermiques — Vocabulaire

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The document was prepared by Technical Committee ISO/TC17, Steel.

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Ferrous materials — Heat treatments — Vocabulary

1 Scope

This document defines important terms used in the heat treatment of ferrous materials.

[Annex A](#) provides an alphabetical list of terms defined in this document, as well as their equivalents in French, German, Russian, Chinese and Japanese.

[Table 1](#) shows the various iron-carbon (Fe-C) phases.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 18203:2016, *Steel — Determination of the thickness of surface-hardened layers*

3 Terms and definitions

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

There are 3 types of terms specified in this document, preferred terms, admitted terms and deprecated terms. Preferred terms are the primary terms for a given concept. The preferred term is the form which is used throughout the main body of the text. If there is more than one preferred term, only one of the preferred terms shall be used except in the case where both a full form and an abbreviated form are preferred terms (in which case they may be used interchangeably). Preferred terms are written in bold type (with the exception of symbols, which shall be presented as used in running text). Admitted terms are accepted synonyms for the preferred term. They are written in regular type. Deprecated terms are synonyms of the preferred term, which are no longer in use or whose use is discouraged. They are written in regular type.

There can be more than one term of each type. An abbreviated term or a symbol can constitute a term.

EXAMPLE

3.1 General terms

3.1.1

accelerated cooling

method of cooling in the rolling process and which aims at conditioning the crystal structure of steels and improving the mechanical properties by means of rolling followed by cooling down through the temperature range for transformation with a greater speed than that of air-cooling

Note 1 to entry: This does not include the cooling method for quenching which merely cools rapidly on a rolling line using the accelerated cooling equipment.

Note 2 to entry: Cooling for equipment protection, capability compensation of cooling bed, etc are not included in the accelerated cooling because they do not affect mechanical properties of steel.

Note 3 to entry: Accelerated cooling is frequently used for tubes, forgings and thick plates.