

Welding — Guidelines for quality requirements for heat treatment in connection with welding and allied processes

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National foreword

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Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

This Published Document is not to be regarded as a British Standard.

This Published Document, having been prepared under the direction of the Electrotechnical Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 June 2001

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English version

**Welding - Guidelines for quality requirements for heat treatment
in connection with welding and allied processes (ISO/TR
17663:2001)**

Soudage - Lignes directrices concernant les exigences de
qualité relatives au traitement thermique en soudage et
techniques connexes (ISO/TR 17663:2001)

Schweißen - Richtlinien für Qualitätsanforderungen zur
Wärmebehandlung beim Schweißen und bei verwandten
Prozessen (ISO/TR 17663:2001)

This CEN Report was approved by CEN on 30 June 1999. It has been drawn up by the Technical Committee CEN/TC 121.

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Foreword

This Technical Report has been prepared by the Technical Committee CEN/TC 121 "Welding", of which the Secretariat is held by DS, in collaboration with the Technical Committee ISO/TC 44 "Welding and allied processes".

The Technical Committee decided to publish this Technical Report.

1 Scope

This Technical Report proposes quality requirements for heat treatment in air or controlled atmospheres carried out in workshops and on site in connection with welding and forming. It applies mainly to ferritic steels, but may be used for other materials, as appropriate.

The purpose of this report is to form as a guidance for manufacturers which perform heat treatment or produce heat treated products or components. This report may also be used as a basis for assessing the manufacturer in respect to its heat treatment capability.

The requirements contained within this report may be adopted in full or may be selectively deleted by the manufacturer if not applicable to the construction concerned. They provide a flexible framework for the control of heat treatment in the following cases:

– Case 1

To provide specific requirements for heat treatment in contracts which require the manufacturer to have a quality system in accordance with EN ISO 9001 or EN ISO 9002.

– Case 2

To provide specific requirements for heat treatment in contracts which require the manufacturer to have a quality system other than EN ISO 9001 or EN ISO 9002.

– Case 3

To provide specific requirements for heat treatment as guidance to a manufacturer developing a quality system.

– Case 4

To provide specific requirements for post weld heat treatment when required by EN 729-2 or EN 729-3.

– Case 5

To provide specific requirements for references in application standards which uses heat treatment as part of its requirements or agreed in a contract between relevant parties.

2 Normative references

This Technical Report incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this Technical Report only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 729-2

Quality requirements for welding - Fusion welding of metallic materials - Part 2: Comprehensive quality requirements

EN 729-3

Quality requirements for welding - Fusion welding of metallic materials - Part 3: Standard quality requirements

EN 10052

Vocabulary of heat treatment terms for ferrous products

EN ISO 13916

Welding - Guidance of the measurement of preheating temperature, interpass temperature and preheat maintenance temperature (ISO 13916:1996)