

Quality requirements for welding — Resistance welding of metallic materials —

Part 1: Comprehensive quality requirements

The European Standard EN ISO 14554-1:2000 has the status of a
British Standard

ICS 25.160.10

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

BSI
Documents



Document Sharing Hub

National foreword

This British Standard is the official English language version of EN ISO 14554-1:2000. It is identical with ISO 14554-1:2000.

The UK participation in its preparation was entrusted to Technical Committee WEE/29, Resistance welding, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

Attention is drawn to the fact that CEN and CENELEC Standards normally include an annex which lists normative references to international publications with their corresponding European publications. The British Standards which implement these international or European publications 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.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the EN ISO title page, pages 2 to 13 and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

This British Standard, having been prepared under the direction of the Engineering Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 April 2001

© BSI 04-2001

Amendments issued since publication

Amd. No.	Date	Comments

ISBN 0 580 34496 7

English version

Quality requirements for welding - Resistance welding of metallic materials - Part 1: Comprehensive quality requirements (ISO 14554-1:2000)

Exigences de qualité en soudage - Soudage par résistance des matériaux métalliques - Partie 1: Exigences de qualité complète (ISO 14554-1:2000)

Schweißtechnische Qualitätsanforderungen - Widerstandsschweißen metallischer Werkstoffe - Teil 1: Umfassende Qualitätsanforderungen (ISO 14554-1:2000)

This European Standard was approved by CEN on 3 January 2000.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Contents

	Page
Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Contract and design review	5
4.1 General	5
4.2 Application – Contract review	5
4.3 Application – Design review	6
5 Sub-contracting	6
6 Welding personnel	6
6.1 General	6
6.2 Operators	6
6.3 Resistance weld setter	6
6.4 Welding supervisors	7
7 Inspection, testing and examinations personnel	7
8 Equipment	7
8.1 Production and testing facilities	7
8.2 Description of facilities	7
8.3 Approval of facilities	7
8.4 Installation of new or refurbished equipment	7
8.5 Maintenance	8
9 Welding activities	8
9.1 Production planning	8
9.2 Welding procedure specification (WPS)	8
9.3 Welding procedure approval (WPA)	8
9.4 Work instructions	8
9.5 Documentation	8
10 Welding electrodes and auxiliaries	9
10.1 General	9
10.2 Batch testing	9
10.3 Welding electrodes	9
10.4 Marking of the welding electrodes	9
11 Storage of parent metal	9
12 Heat treatment	9
13 Weld related inspection and testing	9
13.1 General	9
13.2 Inspection and testing before welding	9
13.3 Inspection and testing during production	10
13.4 Inspection and testing after welding	10
13.5 Inspection and test status	10
14 Non-conformance and corrective action	10
15 Calibration	10
16 Identification and traceability	10
17 Quality records	11
Annex A (informative) Summary comparison of welding quality requirements with regard to EN ISO 14554-1 and EN ISO 14554-2	12

Foreword

The text of EN ISO 14554-1:2000 has been prepared by Technical Committee CEN/TC 121 "Welding", the secretariat of which is held by DS, in collaboration with Technical Committee ISO/TC 44 "Welding and allied processes".

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 October 2000, and conflicting national standards shall be withdrawn at the latest by October 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association. This European Standard is considered to be a supporting standard to those application and product standards which in themselves support an essential safety requirement of a New Approach Directive and which make reference to this European Standard.

Annexe A is informative.