



SLOVENSKI STANDARD SIST EN ISO 3834-1:2006

01-marec-2006

Nadomešča:
SIST EN 729-1:1995

Zahteve za kakovost pri talilnem varjenju kovinskih materialov – 1. del: Merila za izbiro stopenj sprejemljivosti (ISO 3834-1:2005)

Quality requirements for fusion welding of metallic materials - Part 1: Criteria for the selection of the appropriate level of quality requirements (ISO 3834-1:2005)

Qualitätsanforderungen für das Schmelzschweißen von metallischen Werkstoffen - Teil 1: Kriterien für die Auswahl der geeigneten Stufe der Qualitätsanforderungen (ISO 3834-1:2005)

Exigences de qualité en soudage par fusion des matériaux métalliques - Partie 1: Critères pour la sélection du niveau approprié d'exigences de qualité (ISO 3834-1:2005)

Ta slovenski standard je istoveten z: **EN ISO 3834-1:2005**

ICS:

03.120.99	Drugi standardi v zvezi s kakovostjo	Other standards related to quality
25.160.10	Varilni postopki in varjenje	Welding processes

SIST EN ISO 3834-1:2006 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 3834-1:2006

<https://standards.iteh.ai/catalog/standards/sist/01e87485-9569-4888-8185-fcd576e3439e/sist-en-iso-3834-1-2006>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 3834-1

December 2005

ICS 25.160.01

Supersedes EN 729-1:1994

English Version

**Quality requirements for fusion welding of metallic materials -
Part 1: Criteria for the selection of the appropriate level of quality
requirements (ISO 3834-1:2005)**

Exigences de qualité en soudage par fusion des matériaux
métalliques - Partie 1: Critères pour la sélection du niveau
approprié d'exigences de qualité (ISO 3834-1:2005)

Qualitätsanforderungen für das Schmelzschweißen von
metallischen Werkstoffen - Teil 1: Kriterien für die Auswahl
der geeigneten Stufe der Qualitätsanforderungen (ISO
3834-1:2005)

This European Standard was approved by CEN on 28 October 2005.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 3834-1:2005 (E)**Foreword**

This document (EN ISO 3834-1:2005) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 "Welding", 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 June 2006, and conflicting national standards shall be withdrawn at the latest by June 2006.

This document supersedes EN 729-1:1994.

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

Endorsement notice

The text of ISO 3834-1:2005 has been approved by CEN as EN ISO 3834-1:2005 without any modifications.

(standards.itech.ai)

[SIST EN ISO 3834-1:2006](https://standards.itech.ai/catalog/standards/sist/01e87485-9569-4888-8185-fcd576e3439e/sist-en-iso-3834-1-2006)

<https://standards.itech.ai/catalog/standards/sist/01e87485-9569-4888-8185-fcd576e3439e/sist-en-iso-3834-1-2006>

INTERNATIONAL STANDARD

ISO
3834-1

Second edition
2005-12-15

Quality requirements for fusion welding of metallic materials —

Part 1: Criteria for the selection of the appropriate level of quality requirements

iTeh STANDARD PREVIEW
*Exigences de qualité en soudage par fusion des matériaux
métalliques —*

(standards.iteh.ai)

*Partie 1: Critères pour la sélection du niveau approprié d'exigences de
qualité*

SIST EN ISO 3834-1:2006

<https://standards.iteh.ai/catalog/standards/sist/01e87485-9569-4888-8185-fcd576e3439e/sist-en-iso-3834-1-2006>



Reference number
ISO 3834-1:2005(E)

© ISO 2005

ISO 3834-1:2005(E)**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 3834-1:2006](https://standards.iteh.ai/catalog/standards/sist/01e87485-9569-4888-8185-fcd576e3439e/sist-en-iso-3834-1-2006)

<https://standards.iteh.ai/catalog/standards/sist/01e87485-9569-4888-8185-fcd576e3439e/sist-en-iso-3834-1-2006>

© ISO 2005

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General outline of ISO 3834	2
5 Selection of quality requirements	3
6 Elements to be considered for a quality management system to complement ISO 3834	4
Annex A (informative) Criteria which assist in the selection of the appropriate part of ISO 3834	5
Bibliography	7

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 3834-1:2006](https://standards.iteh.ai/catalog/standards/sist/01e87485-9569-4888-8185-fcd576e3439e/sist-en-iso-3834-1-2006)

<https://standards.iteh.ai/catalog/standards/sist/01e87485-9569-4888-8185-fcd576e3439e/sist-en-iso-3834-1-2006>

ISO 3834-1:2005(E)

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 3834-1 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 10, *Unification of requirements in the field of metal welding*.

This second edition cancels and replaces the first edition (ISO 3834-1:1994), which has been technically revised.

ISO 3834 consists of the following parts, under the general title *Quality requirements for fusion welding of metallic materials*:

- *Part 1: Criteria for the selection of the appropriate level of quality requirements*
- *Part 2: Comprehensive quality requirements*
- *Part 3: Standard quality requirements*
- *Part 4: Elementary quality requirements*
- *Part 5: Documents with which it is necessary to conform to claim conformity to the quality requirements of ISO 3834-2, ISO 3834-3 or ISO 3834-4*

NOTE A Technical Report ISO/TR 3834-6, *Quality requirements for fusion welding of metallic materials — Part 6: Guidance on implementing ISO 3834* is being prepared.

Requests for official interpretations of any aspect of this part of ISO 3834 should be directed to the Secretariat of ISO/TC 44/SC 10 via your national standards body, a complete listing which can be found at <http://www.iso.org>.

Introduction

Processes such as fusion welding are widely used to manufacture many products. In some companies, they are the key feature of production. Products may range from simple to complex. Examples include pressure vessels, domestic and agricultural equipment, cranes, bridges, transport vehicles and other items.

These processes exert a profound influence on the cost of manufacture and quality of the product. It is important, therefore, to ensure that these processes are carried out in the most effective way and that appropriate control is exercised over all aspects of the operation.

It is emphasised that ISO 3834 is not a quality management system standard replacing ISO 9001:2000. However, it can be a useful tool when ISO 9001:2000 is applied by manufacturers.

Specification of quality requirements for welding processes is important because the quality of these processes cannot be readily verified. Therefore, they are considered to be special processes as noted by ISO 9000:2000.

Quality cannot be inspected into a product, it has to be built in. Even the most extensive and sophisticated non-destructive testing does not improve the quality of the product.

For products to be free from serious problems in production and in service, it is necessary to provide controls, from the design phase, through material selection, into manufacture and subsequent inspection. For example, poor design may create serious and costly difficulties in the workshop, on site, or in service. Incorrect material selection may result in problems, such as cracking in welded joints.

To ensure sound and effective manufacturing, management needs to understand and appreciate the sources of potential trouble and to implement appropriate procedures for their control.

ISO 3834 identifies measures that are applicable for different situations. Typically, they may be applied in the following circumstances:

- in contractual situations: specification of welding quality requirements;
- by manufacturers: establishment and maintenance of welding quality requirements;
- by committees drafting manufacturing codes or application standards: specification of welding quality requirements;
- by organizations assessing welding quality performance, e.g. third parties, customers, or manufacturers.

ISO 3834 can be used by internal and external organizations, including certification bodies, to assess the manufacturer's ability to meet customer, regulatory or the manufacturer's own requirements.