

भारतीय मानक ब्यूरो

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भारतीय मानक मसौदा

**धात्विक सामग्रियों की संलयन वेल्डिंग हेतु गुणवत्ता की आवश्यकताएं
भाग 1 गुणवत्ता की आवश्यकताओं के उचित स्तर के चयन के लिए मानदंड
(दूसरा पुनरीक्षण)**

Draft Indian Standard

Quality Requirements for Fusion Welding of Metallic Materials — Part 1: Criteria for the Selection of the Appropriate Level of Quality Requirements (Second Revision)

ICS 25.160.01

Welding General and its Applications
Sectional Committee, MTD 11

Last date for receipt of comments is
29/12/2023

NATIONAL FOREWORD

This draft standard (Second Revision) which is identical to ISO 3834-1 : 2021 ‘Quality requirements for fusion welding of metallic materials — Part 1: Criteria for the selection of the appropriate level of quality requirements’ issued by the International Organization for Standardization (ISO), and subject to its finalization, is to be adopted by the Bureau of Indian Standards on the recommendation of the Welding General and its Applications Sectional Committee and approval of the Metallurgical Engineering Division Council.

This standard was originally published in 2003 and subsequently revised in 2018. The second revision of this standard has been undertaken to align it with the latest version of ISO 3834-1 : 2021 under dual numbering system to harmonize it with the latest developments that have taken place at international level.

This standard is published in five parts. Other parts of this standard are:

- | | |
|--------|------------------------------------|
| 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

This edition cancels and replaces the previous edition, which has been technically revised. The main changes are as follows:

- 1) this document has been editorially revised;
- 2) references to subclauses in ISO 9001 have been updated.

The text of ISO standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical with those used in Indian Standard. Attention is especially drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, it should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exists. The corresponding Indian Standards which are to be substituted in their place are listed below along with their degree of equivalence for the edition indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 9000 : 2015 Quality management systems — Fundamentals and vocabulary	IS/ISO 9000 : 2015 Quality management systems — Fundamentals and vocabulary (Fourth Revision)	Identical
ISO/TR 25901-1 : 2016 Welding and allied processes Vocabulary Part 1 : General terms	Doc No. MTD/11/24183 Welding and allied processes Vocabulary Part 1 : General terms (First Revision)	Identical
ISO 25901-2 : 2022 Welding and allied processes Vocabulary Part 2 : Health and safety	Doc No. MTD/11/24184 Welding and allied processes Vocabulary Part 2 : Health and safety (First Revision)	Identical
ISO/TR 25901-3 : 2016 Welding and allied processes Vocabulary Part 3 : Welding processes	Doc No. MTD/11/24185 Welding and allied processes Vocabulary Part 3 : Welding processes (First Revision)	Identical

ISO/TR 25901-4 : 2016 Doc No. MTD/11/24186 Welding Identical
Welding and allied processes and allied processes Vocabulary
Vocabulary Part 4 : Arc Part 4 : Arc welding (First
welding Revision)

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

The scope of the standard is as follows:

SCOPE

This document specifies a general outline of the ISO 3834 series and criteria to be taken into account for the selection of the appropriate level of quality requirements for fusion welding of metallic materials, among the three levels specified in ISO 3834-2, ISO 3834-3 and ISO 3834-4.

It is applicable to manufacturing, both in workshops and at field installation sites.

This document does not specify requirements for a total quality management system (QMS). However, Clause 6 identifies QMS elements where their inclusion complements the ISO 3834 series.

The complete document/text of ISO 3834-1 : 2021 'Quality requirements for fusion welding of metallic materials — Part 1: Criteria for the selection of the appropriate level of quality requirements' may be made available, on request to:

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