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Qualification testing of welders for underwater welding - Part 1: Diver-welders for hyperbaric wet welding (ISO 15618-1:2016)

Prüfung von Schweißern für Unterwasserschweißen - Teil 1: Unterwasserschweißer für Nassschweißen unter Überdruck (ISO 15618-1:2016)

Épreuve de qualification des soudeurs pour le soudage sous l'eau - Partie 1: Scaphandriers soudeurs pour le soudage hyperbare en pleine eau (ISO 15618-1:2016)

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EUROPEAN STANDARD

EN ISO 15618-1

NORME EUROPÉENNE

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Qualification testing of welders for underwater welding - Part 1: Hyperbaric wet welding (ISO 15618-1:2016)

Épreuve de qualification des soudeurs pour le soudage
sous l'eau - Partie 1: Soudage hyperbare en pleine eau
(ISO 15618-1:2016)

Prüfung von Schweißern für Unterwasserschweißen -
Teil 1: Nassschweißen unter Überdruck (ISO 15618-
1:2016)

This European Standard was approved by CEN on 8 July 2016.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents	Page
European foreword.....	3

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[SIST EN ISO 15618-1:2016](https://standards.iteh.ai/catalog/standards/sist/865ec23b-a8f3-4a71-8225-dd037c4bb95f/sist-en-iso-15618-1-2016)
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European foreword

This document (EN ISO 15618-1:2016) has been prepared by Technical Committee ISO/TC 44 “Welding and allied processes” in collaboration with Technical Committee CEN/TC 121 “Welding and allied processes” 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 March 2017, and conflicting national standards shall be withdrawn at the latest by March 2017.

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

This document supersedes EN ISO 15618-1:2001.

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

PREVIEW

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Endorsement notice

The text of ISO 15618-1:2016 has been approved by CEN as EN ISO 15618-1:2016 without any modification.

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INTERNATIONAL
STANDARD

ISO
15618-1

Second edition
2016-09-01

**Qualification testing of welders for
underwater welding —**

**Part 1:
Hyperbaric wet welding**

Épreuve de qualification des soudeurs pour le soudage sous l'eau —

Partie 1: Soudage hyperbare en pleine eau

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Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Symbols and abbreviations	2
4.1 General.....	2
4.2 Test piece.....	2
4.3 Filler materials and fluxes.....	3
4.4 Miscellaneous.....	3
5 Essential variables for qualification testing	3
5.1 General.....	3
5.2 Welding processes.....	3
5.3 Joint types (butt and fillet welds).....	4
5.4 Material groups.....	4
5.5 Filler materials and fluxes.....	4
5.6 Dimensions.....	4
5.7 Welding positions.....	5
5.8 Hyperbaric environment.....	5
5.9 Visibility.....	5
6 Range of qualification (standards.iteh.ai)	5
6.1 General.....	5
6.2 Welding process.....	5
6.3 Joint types.....	6
6.4 Material groups.....	6
6.5 Filler materials.....	7
6.6 Dimensions.....	7
6.7 Welding positions.....	7
6.8 Hyperbaric environment.....	7
7 Examination and testing	9
7.1 General.....	9
7.2 Witnessing.....	9
7.3 Shapes and dimensions of test pieces.....	9
7.4 Welder-diver qualification test criteria.....	11
7.5 Test methods.....	11
7.6 Test pieces and test specimens.....	12
7.6.1 General.....	12
7.6.2 Butt welds in plate and pipe.....	12
7.6.3 Fillet welds on plate and pipe.....	13
7.7 Test report.....	15
8 Acceptance requirements for test pieces	15
9 Re-tests	15
10 Period and confirmation of validity	15
11 Revalidation of welder-diver qualification	16
12 Welder-diver qualification test certificate	16
13 Designation	16
Annex A (informative) Welder-diver qualification test certificate for hyperbaric wet welding	18
Annex B (informative) Job knowledge	20

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(standards.iteh.ai)

[SIST EN ISO 15618-1:2016](https://standards.iteh.ai/catalog/standards/sist/865ec23b-a8f3-4a71-8225-dd037c4bb95f/sist-en-iso-15618-1-2016)
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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html

The committee responsible for this document is ISO/TC 44, *Welding and allied processes*, Subcommittee SC 11, *Qualification requirements for welding and allied processes personnel*.

This second edition cancels and replaces the first edition (ISO 15618-1:2001), which has been technically revised.

ISO 15618 consists of the following parts, under the general title *Qualification testing of welders for underwater welding*:

- Part 1: *Hyperbaric wet welding*
- Part 2: *Diver-welders and welding operators for hyperbaric dry welding*

Requests for official interpretations of any aspect of this International Standard should be directed to the Secretariat of ISO/TC 44/SC 11 via your national standards body. A complete listing of these bodies can be found at www.iso.org.

ISO 15618-1:2016(E)

Introduction

This part of ISO 15618 covers the principles to be observed in the qualification testing of welder-diver performance for the fusion welding of steels in a hyperbaric wet environment.

The ability of the welder-diver to follow verbal or written instructions and testing of his skill are therefore important factors in ensuring the quality of the welded product.

Testing of skill to this part of ISO 15618 depends on welding methods in which uniform rules and test conditions are complied with, and standard test pieces are used.

The principle of this part of ISO 15618 is that a qualification test qualifies a welder-diver not only for the conditions used in the test, but also for all other conditions which are considered easier to weld in accordance with this part of ISO 15618. It is presumed that the welder-diver has received training and/or has industrial practice within the range of qualification.

This part of ISO 15618 is intended to provide the basis for the mutual recognition by examining bodies for qualification relating to the welder-diver's competence in the various fields of application. Tests are to be carried out in accordance with this part of ISO 15618 unless additional tests are specified by the relevant application standard when these should be applied.

The welder-diver's skill and job knowledge continue to be approved only if the welder-diver is working with reasonable continuity on welding work within the extent of qualification.

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