INTERNATIONAL STANDARD

ISO 15609-2

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Specification and qualification of welding procedures for metallic materials — Welding procedure specification —

Part 2: Gas welding

Descriptif et qualification d'un mode opératoire de soudage pour les matériaux métalliques — Descriptif d'un mode opératoire de soudage —

Partie 2: Soudage aux gaz



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 part of ISO 15609 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 15609-2 was prepared by the European Committee for Standardization (CEN) in collaboration with Technical Committee ISO/TC 44, *Welding and allied phocesses*, Subcommittee SC 10, *Unification of requirements in the field of metal welding*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Throughout the text of this document, read "...this European Standard..." to mean "...this International Standard...".

ISO 15609 consists of the following parts, under the general title Specification and qualification of welding procedures for metallic materials — Welding procedure specification:

- Part 1: Arc welding
- Part 2: Gas welding
- Part 3: Electron beam welding
- Part 4: Laser beam welding
- Part 5: Resistance welding
- Part 6: Laser beam cladding

Annex A of this part of ISO 15609 is for information only.

For the purposes of this part of ISO 15609, the CEN annex regarding fulfilment of European Council Directives has been removed.

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Foreword

The text of EN ISO 15609-2:2001 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 March 2002, and conflicting national standards shall be withdrawn at the latest by March 2002.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the

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Coording to the CEN/CENETEC In. countries are bound to implement this E. France, Germany, Greece, Iceland, Ireland, Switzerland and the United Kingdom Report is a Coordinate of the Central Coordinate According to the CEN/CENEDEC 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,

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1 Scope

This European Standard specifies requirements for the content of welding procedure specifications for gas welding processes.

This standard is part of a series of standards, details of this series are given in prEN ISO 15607, annex A.

Variables listed in this standard are those influencing the quality of the welded joint.

2 Normative references

This European Standard 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 European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN ISO 4063, Welding and affied processes – Nomenclature of processes and reference numbers (ISO 4063:1998).

EN ISO 6947, Welds - Working positions Definitions of angles of slope and rotation (ISO 6947:1993).

prEN ISO 15607, Specification and approval of welding procedures for metallic materials – General rules (ISO/DIS 15607:2000).

CR ISO 15608, Welding – Guidelines for a metallic material grouping system (ISO/TR 15608:2000).

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in prEN ISO 15607 apply.

4 Technical contents of Welding Procedure Specification (WPS)

4.1 General

The Welding Procedure Specification (WPS) shall give details of how a welding operation is to be successfully performed.

Welding Procedure Specifications may cover a certain range of thickness of the pined parts and may also cover a range of parent materials or welding consumables. Some manufacturers may prefer additionally to prepare work instructions for each specific job as part of detailed production planning.

Information listed in 4.2 to 4.4 is adequate for most gas welding procedures. For some applications it may be necessary to supplement or reduce the list.

Ranges and tolerances, according to the relevant standard of the series (see prEN ISO 15607) and to the manufacturer's experience, shall be specified where appropriate.

An example of the WPS-format is shown in annex A.

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