
Varjenje in sorodni postopki - Seznam postopkov in številčne oznake (ISO/DIS 4063:2020)

Welding, brazing, soldering, cutting, mechanical joining and adhesive bonding - Nomenclature of processes and reference numbers (ISO/DIS 4063:2020)

Schweißen, Hartlöten, Weichlöten, Schneiden, Mechanisches Fügen und Kleben - Liste der Prozesse und Ordnungsnummern (ISO/DIS 4063:2020)

Soudage, brasage, coupage, assemblage mécanique et collage - Nomenclature et numérotation des procédés (ISO/DIS 4063:2020)

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Welding, brazing, soldering, cutting, mechanical joining and adhesive bonding — Nomenclature of processes and reference numbers

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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Designation	1
4.1 General.....	1
4.2 Hybrid joining.....	2
4.3 Combined joining (Combination of joining processes).....	2
5 List of processes and reference numbers	2
5.1 General.....	2
5.2 Welding.....	2
5.3 Thermal cutting.....	8
5.4 Brazing, soldering and weld brazing.....	9
5.5 Mechanical joining.....	10
5.6 Adhesive bonding.....	12
Annex A (normative) Process variants	14
Annex B (informative) Replaced and obsolete processes	16
Annex C (informative) Acronyms for welding and allied processes commonly used in the USA	17

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ISO/DIS 4063:2020(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.

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).

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

For an explanation of the voluntary nature of standards, 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 7, *Representation and terms*.

This fifth edition cancels and replaces the fourth edition (ISO 4063:2009), which has been technically revised.

The main changes compared to the previous edition are as follows:

- addition of processes for welding (thermal joining) of plastics, for mechanical joining and for adhesive bonding,

Any feedback, question or request for official interpretation related to any aspect of this document should be directed to the Secretariat of ISO/TC 44/SC 7 via your national standards body. A complete listing of these bodies can be found at www.iso.org/members.html. Official interpretations, where they exist, are available from this page: <https://committee.iso.org/sites/tc44/home/interpretation.html>.

Introduction

In the previous editions of this document, the numbering system only covered processes for welding, weld brazing, brazing, soldering, cutting and gouging. This allowed the use of a three-digits numbering system, where one digit corresponds to a main process (e.g.: "1 Arc welding"), two digits to a sub-process (e.g.: "11 Metal arc welding without gas protection"), and three digits to a sub-sub-process (e.g.: "111 Manual metal arc welding").

The main change in this fifth edition is the incorporation of processes and reference numbers for welding (thermal joining) of plastics, for mechanical joining and for adhesive bonding.

Because of the intrinsic limits of the three-digits system, it became necessary to adopt a four-digits system, where the first digit corresponds to the main type of technology (i.e.: 1xxx for mechanical joining and 2xxx for adhesive bonding), and the three following digits to the main process, sub-processes and sub-sub-processes.

However, since any change of a given existing process and reference number can have a very strong and negative impact in the industry, it was decided to keep the three-digits numbering system for all the processes already covered in previous editions.

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Welding, brazing, soldering, cutting, mechanical joining and adhesive bonding — Nomenclature of processes and reference numbers

1 Scope

This International Standard establishes a nomenclature for

- welding;
- brazing, soldering and weld brazing;
- thermal cutting;
- mechanical joining;
- adhesive bonding;

with each process identified by a reference number. This document is applicable for all materials where the joining processes are appropriate.

NOTE In addition to terms in English and French, two of the three official ISO languages, this International Standard gives the equivalent terms in German; these are published under the responsibility of the member body for Germany (DIN). However, only the terms given in the official languages can be considered as ISO terms.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Designation

4.1 General

Where a full designation is required for a joining process, it shall have the following structure: the number of this International Standard (i.e. "ISO 4063"), separated by a hyphen from the reference number of the process, as shown in these examples.

EXAMPLE 1 Process 48 "Cold pressure welding" is designated as:

ISO 4063 – 48

EXAMPLE 2 Process "Radio frequency welding" with reference number 62 is designated as:

ISO 4063 – 62

ISO/DIS 4063:2020(E)

EXAMPLE 3 Process "Blind riveting" with reference number 1120 is designated as:

ISO 4063 – 1120

EXAMPLE 4 Process "Adhesive bonding with cold-curing 2C silicones" with reference number 2312 is designated as:

ISO 4063 – 2312

EXAMPLE 5 Process "Heated wedge welding with hot gas" with reference number 662-A is designated as:

ISO 4063 – 662-A

4.2 Hybrid joining

When multiple processes are used simultaneously in one process area, the processes shall be described using the designations for each process separated by the symbol "+".

EXAMPLE Process "Gas laser welding" (reference number 522) together with process "Plasma arc welding" (reference number 15) is designated as:

ISO 4063 – 522+15

4.3 Combined joining (Combination of joining processes)

When multiple processes are combined sequentially in one process area, the processes shall be described using the designations for each process separated by the symbol ">".

EXAMPLE Process "Self-piercing riveting" (reference number 1110) followed by process "Resistance spot welding" (reference number 21) is designated as:

ISO 4063 – 1110>21

5 List of processes and reference numbers**5.1 General**

The first term listed is the preferred term and any subsequent terms are synonyms. US terms are shown for information where there are differences.

[Annex A](#) provides supplementary options for process variants.

[Annex B](#) provides an overview for replaced and obsolete processes.

[Annex C](#) provides a list of commonly used acronyms and abbreviations for the welding processes in the USA included in this International Standard.

5.2 Welding¹⁾**1 Arc welding****11 Metal arc welding without gas protection****111 Manual metal arc welding**

Shielded metal arc welding, USA

1) Due to historic reasons (see Introduction) the reference numbers for welding, thermal cutting, brazing, soldering and weld brazing do not have a first digit corresponding to the main type of technology, as "1xxx" for mechanical joining or "2xxx" for adhesive bonding.