
Specifikacija in razvrščanje varilnih postopkov za kovinske materiale - Preskus varilnega postopka - 1. del: Obločno in plamensko varjenje jekel in obločno varjenje niklja in nikljevih zlitin - Dopolnilo A2 (ISO 15614-1:2017/DAM 2:2019)

Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys - Amendment 2 (ISO 15614-1:2017/DAM 2:2019)

Anforderung und Qualifizierung von Schweißverfahren für metallische Werkstoffe - Schweißverfahrensprüfung - Teil 1: Lichtbogen- und Gasschweißen von Stählen und Lichtbogenschweißen von Nickel und Nickellegierungen - Änderung 2 (ISO 15614-1:2017/DAM 2:2019)

[SIST EN ISO 15614-1:2017/kFprA2:2020](https://standards.iteh.ai/catalog/standards/sist/5d09841f-0cf2-4aad-a821-0c1be0bf7da8/sist-en-iso-15614-1-2017-kfprA2-2020)

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Descriptif et qualification d'un mode opératoire de soudage pour les matériaux métalliques - Épreuve de qualification d'un mode opératoire de soudage - Partie 1: Soudage à l'arc et aux gaz des aciers et soudage à l'arc du nickel et des alliages de nickel - Amendement 2 (ISO 15614-1:2017/DAM 2:2019)

Ta slovenski standard je istoveten z: EN ISO 15614-1:2017/prA2

ICS:

25.160.10	Varilni postopki in varjenje	Welding processes
77.080.20	Jekla	Steels
77.120.40	Nikelj, krom in njune zlitine	Nickel, chromium and their alloys

SIST EN ISO 15614-1:2017/oprA2:2019 en,fr,de

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DRAFT AMENDMENT

ISO 15614-1:2017/DAM 2

ISO/TC 44/SC 10

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

Part 1:

Arc and gas welding of steels and arc welding of nickel and nickel alloys

AMENDMENT 2

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

Partie 1: Soudage à l'arc et aux gaz des aciers et soudage à l'arc du nickel et des alliages de nickel

AMENDEMENT 2

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ICS: 25.160.10

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ISO/CEN PARALLEL PROCESSING



Reference number
ISO 15614-1:2017/DAM 2:2019(E)

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This document was prepared by Technical Committee [or Project Committee] ISO/TC [or ISO/PC] ###, [name of committee], Subcommittee SC ##, [name of subcommittee].

This second/third/... edition cancels and replaces the first/second/... edition (ISO #####:#####), which has been technically revised.

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

— xxx xxxxxxxx xxx xxxx

A list of all parts in the ISO ##### series can be found on the ISO website.

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This document was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 10, *Quality management in the field of welding*.

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

- in sub-clause 8.4.1, level 2, the degree of mechanization as essential variable was deleted;
- in sub-clause 8.4.7, level 2, the requirements for measurement of arc energy were modified.

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

Part 1:

Arc and gas welding of steels and arc welding of nickel and nickel alloys

AMENDMENT 2

1 Replacement for 8.4.1

Replace

8.4.1 Welding processes

For level 1: The degree of mechanization is not an essential variable.

For level 2: Each degree of mechanization shall be qualified independently (manual, partly mechanized, fully mechanized and automatic).

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8.4.1 Welding processes

The degree of mechanization is not an essential variable.

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2 Replacement for 8.4.7

Replace second paragraph of 8.4.7 for level 2

8.4.7 Heat input (arc energy)

For level 1: When impact requirements apply, the upper limit of heat input qualified is the maximum heat input used when welding the test piece.

For level 2: When impact requirements apply, the upper limit of the heat input qualified is 25 % greater than used in welding the test piece. When hardness requirements apply, the lower limit of the heat input qualified is 25 % lower than that used in welding the test piece. If welding procedure test has been performed at both a high and a low heat input level, then all intermediate heat input levels are also qualified. It is not necessary to calculate every run.

by

8.4.7 Heat input (arc energy)

ISO 15614-1:2017/DAM 2:2019(E)

For level 1: When impact requirements apply, the upper limit of heat input qualified is the maximum heat input used when welding the test piece.

For level 2: When minimum impact requirements apply, the upper limits of the following ranges for heat input or arc energy apply. When maximum hardness requirements apply, the lower limits of the following ranges for heat input or arc energy apply. Average heat input for the relevant welding runs (fill, and cap) is calculated based on the recorded values from the welding procedure qualification test. These averages may be the average from the runs (fill and cap) or the average from the average of the runs per layer. The qualified range for the root, fill and cap is based on these calculated average values.

— **Root-run:**

The value of the heat input or arc energy of the root run, of the considered test piece $\pm 25\%$.

— **Layers of filling runs:**

The average of the values of the filling run(s) or layers of filling runs of the considered test piece $\pm 25\%$

— **Layer of capping runs:**

The average of the values of the capping run(s) of the considered test piece $\pm 25\%$.

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