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Welding consumables - Deposition of a weld metal pad for chemical analysis (ISO 6847:2020)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/21

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English Version

Welding consumables - Deposition of a weld metal pad for chemical analysis (ISO 6847:2020)

Produits consommables pour le soudage - Exécution d'un dépôt de métal fondu pour l'analyse chimique (ISO 6847:2020)

Schweißzusätze - Auftragung von Schweißgut zur Bestimmung der chemischen Zusammensetzung (ISO 6847:2020)

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European foreword

This document (EN ISO 6847:2020) has been prepared by Technical Committee ISO/TC IIW "International Institute of Welding" 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of an identical text or by endorsement, at the latest by March 2021, and conflicting national standards shall be withdrawn at the latest by March 2021.

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The text of ISO 6847:2020 has been approved by CEN as EN ISO 6847:2020 without any modification.

INTERNATIONAL STANDARD

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Welding consumables — Deposition of a weld metal pad for chemical analysis

Produits consommables pour le soudage — Exécution d'un dépôt de métal fondu pour l'analyse chimique



ISO 6847:2020(E)



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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.

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This document was prepared by IIW, *International Institute of Welding*, Commission II, *Arc Welding and Filler Metals*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 121, *Welding and allied processes*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 6847:2013), which has been technically revised.

The main change compared to the previous edition is the addition of provisions for strip-flux combinations for use with cladding with the submerged arc welding and electroslag welding processes.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

ISO 6847:2020(E)

Introduction

The first edition of this document, ISO 6847:1985, addressed only the deposition of a weld metal pad for chemical analysis using covered electrodes for manual arc welding. This pad preparation was expensive to execute. IIW Commission II conducted testing of several methods of weld pad preparation that were less costly to execute than that of ISO 6847:1985 and yet produced equivalent results. Further, these methods were applicable to solid wires for gas shielded welding, to tubular cored wires for arc welding with or without gas shielding, and to wires and fluxes for submerged arc welding, as well as being applicable to covered electrodes. Accordingly, subsequent revisions (ISO 6847:2000 and ISO 6847:2013) simplified weld pad preparation and broadened the range of welding processes and filler metals. This document adds the use of strip with the submerged arc welding and electroslag welding processes.

Welding consumables — Deposition of a weld metal pad for chemical analysis

1 Scope

This document specifies the procedure to be used for deposition of a weld metal pad for chemical analysis.

This document applies to deposition of a weld metal pad by use of covered electrodes, wire electrodes for gas shielded metal arc welding, tubular cored electrodes for gas shielded metal arc welding and for non-gas shielded metal arc welding, solid rods and tubular cored rods for gas tungsten arc welding, and wire-flux and strip-flux combinations for submerged arc welding or electroslag welding and cladding.

This document is applicable to welding consumables for non-alloy and fine grain steels, high strength steels, creep-resisting steels, stainless and heat-resisting steels, nickel and nickel alloys, and copper and copper alloys.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6947, Welding and allied processes — Welding positions

ISO 14175, Welding consumables — Gases and gas mixtures for fusion welding and allied processes

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