



NSAI
Standards

Irish Standard
I.S. EN 14730-2:2021

Railway applications - Track -
Aluminothermic welding of rails - Part 2:
Qualification of aluminothermic welders,
approval of contractors and acceptance of
welds

I.S. EN 14730-2:2021

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 14730-2:2021 is the adopted Irish version of the European Document EN 14730-2:2021, Railway applications - Track - Aluminothermic welding of rails - Part 2: Qualification of aluminothermic welders, approval of contractors and acceptance of welds

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EUROPEAN STANDARD
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EN 14730-2

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English Version

**Railway applications - Track - Aluminothermic welding of
rails - Part 2: Qualification of aluminothermic welders,
approval of contractors and acceptance of welds**

Applications ferroviaires - Voie - Soudage des rails par
aluminothermie - Partie 2 : Qualification des soudeurs
par aluminothermie, agrément des entreprises et
réception des soudures

Bahnanwendungen - Oberbau - Aluminothermisches
Schweißen von Schienen - Teil 2: Qualifizierung
aluminothermischer Schweißer, Zertifizierung von
Betrieben und Abnahme von Schweißungen

This European Standard was approved by CEN on 30 November 2020.

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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.

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EN 14730-2:2021 (E)

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European foreword

This document (EN 14730-2:2021) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, 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of an identical text or by endorsement, at the latest by October 2021, and conflicting national standards shall be withdrawn at the latest by October 2021.

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

This document supersedes EN 14730-2:2006.

This document is the second part of the EN 14730 series which provides systems for the successful delivery of aluminothermic welds in track.

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

EN 14730-2:2021 (E)

Introduction

This document (EN 14730-2) has five main topics:

- a) approval of welding trainers;
- b) approval of welding training centres;
- c) qualifications of aluminothermic welders;
- d) approval of aluminothermic welding contractors;
- e) acceptance of welds.

This part of EN 14730 has been occasioned by a European Directive that will permit the freedom of an open European market. To enable this perception to become a reality, it is essential a standard is in place that satisfies the needs of the infrastructure owners or custodians and reflects the production capabilities of the manufacturers in technical and quality terms.

1 Scope

This document specifies requirements for the:

- approval of training facilities, testing and maintaining the skills of aluminothermic welders and welding trainers. It applies to those aluminothermic welding processes compliant with the requirements of EN 14730-1. It requires that the system for training and testing of welders be approved by the railway authority;
- approval of aluminothermic welding contractors. It applies to those contractors using aluminothermic welding processes compliant with the requirements of EN 14730-1 and who employ welders in the possession of a valid permit to weld as defined in Clause 4 of this document;
- acceptance of the final aluminothermic weld inspections and aluminothermic weld inspectors approved by the railway authority. It does not cover any previous weld inspections by the welder or others.

This document also applies to aluminothermic welds produced on railway rails as contained in EN 13674-1 to EN 13674-4 and EN 16771.

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.

EN 14730-1, *Railway applications - Track - Aluminothermic welding of rails - Part 1: Approval of welding processes*

EN ISO 3834-2, *Quality requirements for fusion welding of metallic materials - Part 2: Comprehensive quality requirements (ISO 3834-2)*

EN ISO 14731, *Welding coordination - Tasks and responsibilities (ISO 14731)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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

3.1

aluminothermic welder

welder trained in an approved training centre in accordance with 3.7 and holding a permit to weld in accordance with 4.5

3.2

contractor

company approved by a railway authority to provide staff and equipment to execute the production of aluminothermic welds

Note 1 to entry: This may include staff and machinery from within the railway authority.

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