

Irish Standard I.S. EN ISO 17637:2016

Non-destructive testing of welds - Visual testing of fusion-welded joints (ISO 17637:2016)

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I.S. EN ISO 17637:2016

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National Foreword

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EUROPEAN STANDARD

EN ISO 17637

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2016

ICS 25.160.40

Supersedes EN ISO 17637:2011

English Version

Non-destructive testing of welds - Visual testing of fusionwelded joints (ISO 17637:2016)

Contrôle non destructif des assemblages soudés -Contrôle visuel des assemblages soudés par fusion (ISO 17637:2016) Zerstörungsfreie Prüfung von Schweißverbindungen - Sichtprüfung von Schmelzschweißverbindungen (ISO 17637:2016)

This European Standard was approved by CEN on 19 October 2016.

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EN ISO 17637:2016 (E)

Contents	Page
European foreword	2
EUFOPEAN 10FEWOFU	

EN ISO 17637:2016 (E)

European foreword

This document (EN ISO 17637:2016) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" 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of an identical text or by endorsement, at the latest by June 2017, and conflicting national standards shall be withdrawn at the latest by June 2017.

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

This document supersedes EN ISO 17637:2011.

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Endorsement notice

The text of ISO 17637:2016 has been approved by CEN as EN ISO 17637:2016 without any modification.

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INTERNATIONAL STANDARD

ISO 17637

Second edition 2016-12-01

Non-destructive testing of welds — Visual testing of fusion-welded joints

Contrôle non destructif des assemblages soudés — Contrôle visuel des assemblages soudés par fusion



ISO 17637:2016(E)



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ISO 17637:2016(E)

Con	itent	S		Page	
Fore	word			iv	
1	Scop	e		1	
2	Normative references				
3	Tern	ns and d	efinitions	1	
4	Test	conditio	ons and equipment	1	
5	Pers	onnel qu	ıalification	2	
6	Visu 6.1 6.2 6.3 6.4	Genera Visual Visual 6.4.1 6.4.2 6.4.3 6.4.4	g al testing of joint preparation testing during welding testing of the finished weld General Cleaning and dressing Profile and dimensions Weld root and surfaces	2 2 2 3 3 3 3 3	
	6.5	6.4.5 Visual 6.5.1 6.5.2 6.5.3	Post-weld heat treatment		
7	Test	records.		4	
Anne	x A (in	formativ	e) Examples of test equipment	6	
Bibli	ograpł	ıy		10	

ISO 17637:2016(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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For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 44, *Welding and allied processes*, Subcommittee SC 5, *Testing and inspection of welds*.

This second edition cancels and replaces the first edition (ISO 17637:2003), which has been technically revised.

Requests for official interpretations of any aspect of this International Standard should be directed to the Secretariat of ISO/TC 44/SC 5 via your national standards body. A complete listing of these bodies can be found at www.iso.org.

Non-destructive testing of welds — Visual testing of fusion-welded joints

1 Scope

This document specifies the visual testing of fusion welds in metallic materials. It may also be applied to visual testing of the joint prior to welding.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

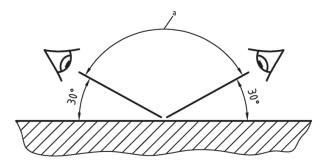
ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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

4 Test conditions and equipment

The illuminance at the surface with white light shall be a minimum of 350 lx; wearing of tinted goggles (e.g. protective sunglasses) increases the minimum illuminance. However, 500 lx is recommended.

For direct inspection, the access shall be sufficient to place the eye within 600 mm of the surface to be examined and at an angle not less than 30° (see Figure 1).



a Range.

Figure 1 — Access for testing

Remote inspection using mirrors, boroscopes, fibre optic cables or cameras shall be considered when the access for testing in accordance with <u>Figure 1</u> is not possible or when specified by an application standard.

An additional light source can be used to increase the contrast and relief between imperfections and the background.



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