



**NSAI**  
Standards

Irish Standard Recommendation  
S.R. CEN ISO/TR 15608:2017

## Welding - Guidelines for a metallic materials grouping system (ISO/TR 15608:2017)

**S.R. CEN ISO/TR 15608:2017**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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*This document is based on:*

CEN ISO/TR 15608:2017

*Published:*

2017-02-15

*This document was published  
under the authority of the NSAI  
and comes into effect on:*

2017-03-06

ICS number:

25.160.01

NOTE: If blank see CEN/CENELEC cover page

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## National Foreword

S.R. CEN ISO/TR 15608:2017 is the adopted Irish version of the European Document CEN ISO/TR 15608:2017, Welding - Guidelines for a metallic materials grouping system (ISO/TR 15608:2017)

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**TECHNICAL REPORT**

**CEN ISO/TR 15608**

**RAPPORT TECHNIQUE**

**TECHNISCHER BERICHT**

February 2017

ICS 25.160.01

Supersedes CEN ISO/TR 15608:2013

English Version

## **Welding - Guidelines for a metallic materials grouping system (ISO/TR 15608:2017)**

Soudage - Lignes directrices pour un système de  
groupement des matériaux métalliques (ISO/TR  
15608:2017)

Schweißen - Richtlinien für eine Gruppeneinteilung  
von metallischen Werkstoffen (ISO 15608:2017)

This Technical Report was approved by CEN on 8 January 2017. It has been drawn up by the Technical Committee CEN/TC 121.

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**CEN ISO/TR 15608:2017 (E)**

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## **European foreword**

This document (CEN ISO/TR 15608:2017) 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.

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 CEN ISO/TR 15608:2013.

### **Endorsement notice**

The text of ISO/TR 15608:2017 has been approved by CEN as CEN ISO/TR 15608:2017 without any modification.

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# TECHNICAL REPORT

**ISO/TR  
15608**

Fourth edition  
2017-02

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## **Welding — Guidelines for a metallic materials grouping system**

*Soudage — Lignes directrices pour un système de groupement des  
matériaux métalliques*



Reference number  
ISO/TR 15608:2017(E)

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**ISO/TR 15608:2017(E)**



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## ISO/TR 15608:2017(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](http://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](http://www.iso.org/iso/foreword.html)

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

This fourth edition cancels and replaces the third edition (ISO/TR 15608:2013), which has been revised and contains the following changes:

- a) the grouping system for steels has been revised ([Clause 2](#));
- b) the Bibliography has been updated and the document editorially revised.

Requests for official interpretations of any aspect of this document should be directed to the Secretariat of ISO/TC 44/SC 10 via your national standards body. A complete listing of these bodies can be found at [www.iso.org](http://www.iso.org).

# Welding — Guidelines for a metallic materials grouping system

## 1 Scope

This document provides guidelines for a uniform system for grouping materials for welding purposes. It can also be applied for other purposes, such as heat treatment, forming and non-destructive testing.

It covers grouping systems for the following standardized materials:

- steels;
- aluminium and its alloys;
- copper and its alloys;
- nickel and its alloys;
- titanium and its alloys;
- zirconium and its alloys;
- cast irons.

## 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 Grouping system for steels

Steels are grouped as shown in [Table 1](#). Only those elements that are specified in material standards or specifications should be considered. Ladle (or heat) analyses should be used in preference of product analysis when both are specified. The figures given in groups:

- 1, 2, 3 and 11 refer to the chemical composition specified in the material standard (specified values);
- 4 to 10 are based on the elemental content used in the designation of the alloys.

Materials assigned to a group in ISO/TR 20172, ISO/TR 20173 and ISO/TR 20174 should be considered assigned to those groups by this document. For materials that are not assigned to a group, the criteria of this document apply.

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