

English Version

## Welding - Grouping systems for materials - Japanese materials (ISO/TR 20174:2020)

Soudage - Systèmes de groupement des matériaux -  
Matériaux japonais (ISO/TR 20174:2020)

Schweißen - Werkstoffgruppeneinteilung - Japanische  
Werkstoffe (ISO/TR 20174:2020)

This Technical Report was approved by CEN on 21 June 2020. It has been drawn up by the Technical Committee CEN/TC 121.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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## European foreword

This document (CEN ISO/TR 20174:2020) 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 shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN ISO/TR 20174:2005.

## Endorsement notice

The text of ISO/TR 20174:2020 has been approved by CEN as CEN ISO/TR 20174:2020 without any modification.

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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.

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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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, 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 [www.iso.org/foreword.html](http://www.iso.org/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*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 121, *Welding*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO/TR 20174:2005), which has been technically revised.

The main change compared to the previous edition is the revision of [Tables 1](#) to [3](#).

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 <https://www.iso.org/members.html>.

Official interpretations of ISO/TC 44 documents, where they exist, are available from this page: <https://committee.iso.org/sites/tc44/home/interpretation.html>.

# Welding — Grouping systems for materials — Japanese materials

## 1 Scope

This document provides a Japanese grouping system for materials for welding purposes, classified in accordance with the grouping system of ISO/TR 15608.

It can also apply for other purposes, such as heat treatment, forming, and non-destructive testing.

Types of steels are listed in accordance with the grouping system of ISO/TR 15608:2017, Table 1.

Types of aluminium and aluminium alloys are listed in accordance with the grouping system of ISO/TR 15608:2017, Table 2.

Types of titanium and titanium alloys are listed in accordance with the grouping system of ISO/TR 15608:2017, Table 5.

This document covers grouping systems for the following standardized materials:

- steels;
- aluminium and its alloys;
- titanium and its alloys.

## 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:

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

## 4 Japanese grouping system for materials

### 4.1 Types of steels in accordance with the grouping system of ISO/TR 15608:2017, Table 1

See [Table 1](#).