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Welding - Grouping systems for materials - European materials (ISO 20172:2009)

S.R. CEN ISO/TR 20172:2009

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Údarás um Chaighdeáin Náisiúnta na hÉireann

English Version

**Welding - Grouping systems for materials - European materials
(ISO 20172:2009)**

Soudage - Systèmes de groupement des matériaux -
Matériaux européens (ISO 20172:2009)

Schweißen - Werkstoffgruppeneinteilung - Europäische
Werkstoffe (ISO 20172:2009)

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Foreword

This document (CEN ISO/TR 20172:2009) has been prepared by Technical Committee CEN/TC 121 "Welding", the secretariat of which is held by DIN, in collaboration with Technical Committee ISO/TC 44 "Welding and allied processes".

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This document supersedes CEN ISO/TR 20172:2006.

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S.R. CEN ISO/TR 20172:2009
**TECHNICAL
REPORT**

**ISO/TR
20172**

Second edition
2009-06-15

**Welding — Grouping systems for
materials — European materials**

*Soudage — Systèmes de groupement des matériaux — Matériaux
européens*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In exceptional circumstances, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example), it may decide by a simple majority vote of its participating members to publish a Technical Report. A Technical Report is entirely informative in nature and does not have to be reviewed until the data it provides are considered to be no longer valid or useful.

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ISO/TR 20172 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 121, *Welding*, in collaboration with Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 10, *Unification of requirements in the field of metal 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 20172:2006), which has been technically revised.

Introduction

This Technical Report reflects the situation in November 2007. Changes in European material standards will be taken into account in the next revision of this Technical Report.

Lists of former designations can be found in the relevant European materials standards.

For the materials not listed in this Technical Report, ISO/TR 20173:2005 and ISO/TR 20174:2005 are applicable.

Welding — Grouping systems for materials — European materials

1 Scope

This Technical Report establishes a European grouping system for materials for welding purposes, classified in accordance with the grouping system of ISO/TR 15608.

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

This Technical Report covers grouping systems for the following standardized materials:

- a) steel;
- b) aluminium and its alloys;
- c) copper and its alloys;
- d) cast irons.

In case of dispute, for example where variations in properties such as thickness and yield strength occur, ISO/TR 15608 applies.

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