

Welding — Grouping systems for materials — European materials

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National foreword

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Summary of pages

This document comprises a front cover, an inside front cover, the CEN ISO/TR title page, the CEN ISO/TR foreword page, the ISO/TR title page, pages ii to v, a blank page, pages 1 to 29 and a back cover.

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Foreword

This document (CEN ISO/TR 20172:2006) 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".

TECHNICAL REPORT

**ISO/TR
20172**

First edition
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Welding — Grouping systems for materials — European materials

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



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Foreword

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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is entirely informative in nature and does not have to be reviewed until the data it provides are considered to be no longer valid or useful.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).

Introduction

This Technical Report reflects the situation as of June 2004. Changes in European material standards will be taken into account at the next revision of this Technical Report.

Welding — Grouping systems for materials — European materials

1 Scope

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

It may also apply for other purposes as heat treatment, forming, non destructive testing. Types of steels in accordance with the grouping system of ISO/TR 15608:2005, Table 1.

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

- steel;
- aluminium and its alloys;
- copper and its alloys;
- cast iron.

2 International grouping system for European materials

2.1 Types of steel in accordance with the grouping system of ISO/TR 15608:2005, Table 1

See Table 1.

Table 1 — Steel materials

Group	Reference standard	Designation	
		Name	Number
1.1	EN 10025-2	S235JR	1.0037
		S235JRG1	1.0036
		S235JRG2	1.0038
		S235JO	1.0114
		S235J2G3	1.0116
		S235J2G4	1.0117
		S235J2G3C	1.0118
		S235J2G4C	1.0119
		S275JR	1.0044
		S275JO	1.0143
		S275J2G3	1.0144
		S275J2G4	1.0145
		S275J2G3C	1.0141
		S275J2G4C	1.0142
	EN 10028-2	P235GH	1.0345
		P265GH	1.0425
	EN 10028-3	P275N	1.0486
		P275NH	1.0487
		P275NL1	1.0488
		P275NL2	1.1104
	EN 10113-2	S275N	1.0486
		S275NL	1.0488
	EN 10113-3	S275M	1.8818
		S275ML	1.8819