

TECHNICAL REPORT

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Voorbeeld

Welding — Grouping systems for materials — Japanese materials

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

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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.

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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is entirely informative in nature and does not have to be reviewed until the data it provides are considered to be no longer valid or useful.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 20174 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).

Welding — Grouping systems for materials — Japanese materials

1 Scope

This Technical Report provides a Japanese 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, such as heat treatment, forming, and non-destructive testing.

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

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

2 Japanese grouping system for materials

2.1 Types of steels in accordance with the grouping system of ISO/TR 15608:2000, Table 1

See Table 1.

Table 1 — Japanese grouping system for steels

Group	Reference standard	Designation
1.1	JIS G 3101	SS330
		SS400
	JIS G 3103	SB410
		SB450
		SB480
		SB450M
		SB480M
	JIS G 3106	SM400A
		SM400B
		SM400C
	JIS G 3113	SAPH310
	JIS G 3116	SP255
	JIS G 3115	SPV235
	JIS G 3118	SGV410
		SGV450
		SGV480
	JIS G 3126	SLA235A
		SLA235B
	JIS G 3131	SPHC
		SPHD
		SPHE
	JIS G 3135	SPFC340
		SPFC370
		SPFC390
		SPFC440
		SPFC490Y
		SPFC540Y
		SPFC590Y
		SPFC340H
JIS G 3136	SN400A	
	SN400B	
	SN400C	
JIS G 3444	STK290	
	STK400	
	STK500	
	STK490	

Table 1 (continued)

Group	Reference standard	Designation
1.1	JIS G 3452	SGP
	JIS G 3454	STPG370
		STPG410
	JIS G 3455	STS370
		STS410
		STS480
	JIS G 3456	STPT370
		STPT410
		STPT480
	JIS G 3457	STPY400
	JIS G 3458	STPA12
	JIS G 3460	STPL380
	JIS G 3461	STB340
		STB410
	JIS G 3462	STBA12
		STBA13
	JIS G 3464	STBL380
	JIS G 3465	STF410
		STFA12
	JIS G 3472	STAM290GA
		STAM290GB
		STAM340G
		STAM390G
	JIS G 3473	STC370
	JIS G 3475	STKN400W
		STKN400B
	JIS G 3201	SF340A
SF390A		
SF440A		
SF490A		
SF540A		

Table 1 (continued)

Group	Reference standard	Designation
1.1	JIS G 3202	SFVC1
		SFVC2A
		SFVC2B
	JIS G 3203	SFVAF1
	JIS G 3205	SFL1
SFL2		
1.2	JIS G 3101	SS490
	JIS G 3106	SM490A
		SM490B
		SM490C
		SM490YA
		SM490YB
	JIS G 3115	SPV315
		SPV355
	JIS G 3116	SG295
		SG325
	JIS G 3119	SBV1A
		SBV1B
		SBV2
	JIS G 3120	SQV1A
		SQV2A
	JIS G 3126	SLA325A
		SLA325B
	JIS G 3134	SPFH490
		SPFH540
		SPFH540Y
		SPFH590Y
	JIS G 3135	SPFC490
		SPFC540
		SPFC590
	JIS G 3136	SN490B
		SN490C
	JIS G 3461	STB510

Table 1 (continued)

Group	Reference standard	Designation
1.2	JIS G 3472	STAM440G
		STAM470G
		STAM500G
		STAM440H
	JIS G 3473	STC440
	JIS G 3475	STKN490B
	JIS G 3201	SF540B
		SF590A
SF590B		
JIS G 3204	SFVQ1A	
1.3	JIS G 3106	SM520BN
		SM520CN
	JIS G 3113	SAPH370
		SAPH400
		SAPH440
	JIS G 3115	SPV450N
		SPV490N
	JIS G 3112	SEV245N
		SEV295N
		SEV345N
1.4	JIS G 3114	SMA480AW
		SMA400AP
		SMA400BW
		SMA400BP
		SMA480CW
		SMA400CP
		SMA490AW
		SMA490AP
		SMA490BW
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