

SLOVENSKI STANDARD SIST-TP CEN ISO/TR 20174:2020

01-september-2020

Nadomešča:

SIST-TP CEN ISO/TR 20174:2006

Varjenje - Razvrščanje materialov v skupine - Japonski materiali (ISO/TR 20174:2020)

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

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

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

SIST-TP CEN ISO/TR 20174:2020

https://standards.iteh.ai/catalog/standards/sist/15936b9a-fc98-490a-bf09-Ta slovenski standard je istoveten z:4/sist-tpCENsJSO/TR 20174:2020

ICS:

25.160.20 Potrošni material pri varjenju Welding consumables

SIST-TP CEN ISO/TR 20174:2020 en,fr,de

SIST-TP CEN ISO/TR 20174:2020

iTeh STANDARD PREVIEW (standards.iteh.ai)

TECHNICAL REPORT RAPPORT TECHNIQUE

TECHNISCHER BERICHT

CEN ISO/TR 20174

July 2020

ICS 25.160.20

Supersedes CEN ISO/TR 20174:2005

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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST-TP CEN ISO/TR 20174:2020 https://standards.iteh.ai/catalog/standards/sist/15936b9a-fc98-490a-bf09-b74db520aec4/sist-tp-cen-iso-tr-20174-2020



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

CEN ISO/TR 20174:2020 (E)

Contents	Page
European foreword	3

iTeh STANDARD PREVIEW (standards.iteh.ai)

CEN ISO/TR 20174:2020 (E)

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.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST-TP CEN ISO/TR 20174:2020

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST-TP CEN ISO/TR 20174:2020

TECHNICAL REPORT

ISO/TR 20174

Second edition 2020-06

Welding — Grouping systems for materials — Japanese materials

Soudage — Systèmes de groupement des matériaux — Matériaux japonais

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST-TP CEN ISO/TR 20174:2020 https://standards.iteh.ai/catalog/standards/sist/15936b9a-fc98-490a-bf09-b74db520aec4/sist-tp-cen-iso-tr-20174-2020



Reference number ISO/TR 20174:2020(E)

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST-TP CEN ISO/TR 20174:2020 https://standards.iteh.ai/catalog/standards/sist/15936b9a-fc98-490a-bf09-b74db520aec4/sist-tp-cen-iso-tr-20174-2020



COPYRIGHT PROTECTED DOCUMENT

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Con	Contents		
Forew	ord		iv
1	Scope	3	1
2	Norm	ative references	1
3	Term	s and definitions	1
4	Japan	ese grouping system for materials	1
	4.1	Types of steels in accordance with the grouping system of ISO/TR 15608:2017, Table	11
	4.2	Types of aluminium and aluminium alloys in accordance with the grouping system of ISO/TR 15608:2017, Table 2	14
	4.3	Types of titanium and titanium alloys in accordance with the grouping system of ISO/TR 15608:2017, Table 5	21
Riblio	oranh		26

iTeh STANDARD PREVIEW (standards.iteh.ai)

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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/iso/foreword.html. (Standards.iteh.ai)

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 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:

iTeh STANDARD PREVIEW

aluminium and its alloys;

(standards.iteh.ai)

titanium and its alloys.

SIST-TP CEN ISO/TR 20174:2020

2 Normative references.iteh.ai/catalog/standards/sist/15936b9a-fc98-490a-bf09-b74db520aec4/sist-tp-cen-iso-tr-20174-2020

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.

Table 1 — Japanese grouping system for steels

Group	Reference standard	Designation
	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	SG255
	JIS G 3115	SPV235
	JIS G 3118	SGV410
		SGV450
	iTeh STAN	DASGV480PREVIEW
	JIS G 3126 (stand	lar SLA235A h.ai)
	JIS G 3131	CDUC
	5151-119	og/stant SPHP ist/15936b9a-fc98-490a-bf09-
1.1	b74db520aec4	/sist-tp- SPHE 0-tr-20174-2020
		SPHF
	JIS G 3135	SPFC340
		SPFC370
		SPFC390
		SPFC440
		SPFC490Y
		SPFC540Y
		SPFC590Y
		SPFC340H
	JIS G 3136	SN400A
		SN400B
		SN400C
	JIS G 3444	STK290
		STK400
	JIS G 3452	SGP
	JIS G 3454	STPG370
	, 20101	STPG410
	JIS G 3455	STS370
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	STS410
		STS480