
**Welding consumables — Solid wires and
rods for fusion welding of titanium and
titanium alloys — Classification**

AMENDMENT 1

*Produits consommables pour le soudage — Fils pleins et baguettes
pleines pour le soudage par fusion du titane et des alliages de titane —
Classification*
(standards.iteh.ai)
AMENDEMENT 1

[ISO 24034:2005/Amd 1:2008](https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-b2672548beaa/iso-24034-2005-amd-1-2008)

[https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-
b2672548beaa/iso-24034-2005-amd-1-2008](https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-b2672548beaa/iso-24034-2005-amd-1-2008)



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 24034:2005/Amd 1:2008](https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-b2672548beaa/iso-24034-2005-amd-1-2008)

<https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-b2672548beaa/iso-24034-2005-amd-1-2008>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2008

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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.

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.

Amendment 1 to ISO 24034:2005 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 3, *Welding consumables*.

Requests for official interpretations of any aspect of this International Standard should be directed to the Secretariat of ISO/TC 44/SC 3 via your national standards body. A complete listing of these bodies can be found at www.iso.org.

iTeh STANDARD PREVIEW
(standards.itih.ai)

<https://standards.itih.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-b2672548beaa/iso-24034-2005-amd-1-2008>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 24034:2005/Amd 1:2008](https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-b2672548beaa/iso-24034-2005-amd-1-2008)

<https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-b2672548beaa/iso-24034-2005-amd-1-2008>

Welding consumables — Solid wires and rods for fusion welding of titanium and titanium alloys — Classification

AMENDMENT 1

Page 5

Insert in a cell immediately above the footnotes:

“NOTE Corresponding national classifications are shown in Annex B.”

Page 9

Add Annex B (see p. 2).

Page 10

Add Bibliography (see p. 3).

iTeh STANDARD PREVIEW
(standards.iteh.ai)
<https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-b2672548beaa/iso-24034-2005-amd-1-2008>

Annex B (informative)

Corresponding national classifications

Table B.1 — Corresponding national classifications

ISO 24034		USA		Japan	Germany
		AWS A5.16/ A5.16M:2004 ^[1]	Aerospace materials specification	JIS Z3331 ^{[7]a,b}	DIN 1737-1 ^[8]
Numerical	Chemical				
Ti 0100	Ti99,8	ERTi-1		YTx270	3.7026
Ti 0120	Ti99,6	ERTi-2		YTx340	
Ti 0125	Ti99,5	ERTi-3	AMS 4951 ^[2]	YTx480	
Ti 0130	Ti99,3	ERTi-4		YTx550	3.7036
Ti 2251	TiPd0,2	ERTi-11		YTx270Pd	3.7226
Ti 2253	TiPd0,06	ERTi-17			
Ti 2255	TiRu0,1	ERTi-27			
Ti 2401	TiPd0,2A	ERTi-7		YTx480Pd	3.7236
Ti 2403	TiPd0,06A	ERTi-16		YTx340Pd	
Ti 2405	TiRu0,1A	ERTi-26			
Ti 3401	TiNi0,7Mo0,3	ERTi-12			
Ti 3416	TiRu0,05Ni0,5	ERTi-15A			
Ti 3423	TiNi0,5	ERTi-13			
Ti 3424	TiNi0,5A	ERTi-14			
Ti 3443	TiNi0,45Cr0,15	ERTi-33			
Ti 3444	TiNi0,45Cr0,15A	ERTi-34			
Ti 3531	TiCo0,5	ERTi-30			
Ti 3533	TiCo0,5A	ERTi-31			
Ti 4621	TiAl6Zr4Mo2Sn2		AMS 4952 ^[3]		
Ti 4810	TiAl8V1Mo1		AMS 4955 ^[5]		
Ti 5112	TiAl5V1Sn1Mo1Zr1	ERTi-32			
Ti 6320	TiAl3V2,5	ERTi-9		YTAx3250	
Ti 6321	TiAl3V2,5A	ERTi-9ELI			
Ti 6324	TiAl3V2,5Ru	ERTi-28			
Ti 6326	TiAl3V2,5Pd	ERTi-18			
Ti 6400	TiAl6V4	ERTi-5	AMS 4954 ^[4]	YTAx6400	
Ti 6402	TiAl6V4B		AMS 4956 ^[6]	YTAx6400E	
Ti 6408	TiAl6V4A	ERTi-23			
Ti 6413	TiAl6V4Ni0,5Pd	ERTi-25			
Ti 6114	TiAl6V4Ru	ERTi-29			
Ti 6415	TiAl6V4Pd	ERTi-24			

^a "x" designates the filler metal form, i.e. B = rods, W = wire.

^b These alloys are the nearest equivalent of the relevant national standards.

Bibliography

- [1] AWS A5.16/A5.16M:2004, *Specification for titanium and titanium-alloy welding electrodes and rods*
- [2] AMS 4951:2003, *Titanium welding wire commercially pure environment controlled packaging*
- [3] AMS 4952:2007, *Titanium alloy, welding wire, 6Al - 2Sn - 4Zr - 2Mo*
- [4] AMS 4954:2003, *Titanium alloy, welding wire, 6Al - 4V*
- [5] AMS 4955:2008, *Titanium alloy, welding wire, 8Al - 1Mo - 1V*
- [6] AMS 4956:2003, *Titanium alloy welding wire, 6Al - 4V, extra low interstitials environment controlled packaging*
- [7] JIS Z3331:2002, *Titanium and titanium alloy welding rods and solid wires*
- [8] DIN 1737-1:1984, *Schweißzusätze für Titan und Titan-Palladiumlegierungen — Chemische Zusammensetzung, Technische Lieferbedingungen* [Filler metals for welding titanium and titanium-palladium alloys — Chemical composition, technical delivery conditions] ¹⁾

iTeh STANDARD PREVIEW (standards.iteh.ai)

[ISO 24034:2005/Amd 1:2008
https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-b2672548beaa/iso-24034-2005-amd-1-2008](https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-b2672548beaa/iso-24034-2005-amd-1-2008)

1) Withdrawn (replaced by ISO 24034).

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 24034:2005/Amd 1:2008](https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-b2672548beaa/iso-24034-2005-amd-1-2008)
[https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-
b2672548beaa/iso-24034-2005-amd-1-2008](https://standards.iteh.ai/catalog/standards/sist/a5dfc071-a3a8-4ca3-91c6-b2672548beaa/iso-24034-2005-amd-1-2008)

ICS 25.160.20

Price based on 3 pages