
**ISO general purpose metric screw
threads — Tolerances —**

**Part 2:
Limits of sizes for general purpose
external and internal screw threads —
Medium quality
AMENDMENT 1**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Filetages métriques ISO pour usages généraux — Tolérances —

*Partie 2: Dimensions limites pour filetage
d'usages généraux — Qualité moyenne*

AMENDEMENT 1



iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 965-2:1998/Amd 1:2021
<https://standards.iteh.ai/catalog/standards/sist/7f2ef7b8-b883-4cc7-b2df-f423cc2b8485/iso-965-2-1998-amd-1-2021>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

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

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.

This document was prepared by Technical Committee ISO/TC 1, *Screw threads*.

A list of all parts in the ISO 965 series can be found on the ISO website.

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 www.iso.org/members.html.

iTeh STANDARD PREVIEW **(standards.iteh.ai)**

ISO 965-2:1998/Amd 1:2021

<https://standards.iteh.ai/catalog/standards/sist/7f2ef7b8-b883-4cc7-b2df-f423cc2b8485/iso-965-2-1998-amd-1-2021>

ISO general purpose metric screw threads — Tolerances —

Part 2:

Limits of sizes for general purpose external and internal screw threads — Medium quality

AMENDMENT 1

Normative references

Change all the references to be undated.

Move ISO 68-1 and ISO 262 into the Bibliography.

Update the title of ISO 5408 to the following:

ISO 5408, *Screw threads — Vocabulary*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Clause 5, first paragraph

Replace “basic profile” with “basic profile and fundamental deviation”.

<https://standards.iteh.ai/catalog/standards/sist/7f2ef7b8-b883-4cc7-b2df-f423cc2b8485/iso-965-2-1998-amd-1-2021>

5.2 and 5.4

Add the following NOTE, before Tables 2 and 4, respectively.

NOTE See Annex A for the external screw thread minor diameters, d_3 , used by ISO/TC 2 to calculate the nominal stress area, $A_{s,nom}$.

Annex A

Add the following annex, before the Bibliography.

Annex A (informative)

External screw thread minor diameters, d_3 , used by ISO/TC 2 for the calculation of nominal stress area, $A_{s,nom}$

A.1 External screw thread minor diameters, d_3

The external screw thread minor diameters, d_3 , used by ISO/TC 2 for the calculation of nominal stress area, $A_{s,nom}$, are given in Table A.1.

The external screw thread minor diameters, d_3 , are calculated according to [Formula \(A.1\)](#).

$$d_3 = d_1 - H/6 + es = d - 2 \times 5H/8 - H/6 + es \quad (\text{A.1})$$

Table A.1 — External screw thread minor diameters, d_3 , used by ISO/TC 2 for the calculation of nominal stress area, $A_{s,nom}$

Dimensions in millimetres

Nominal diameter d	Pitch p	es μm	External screw thread minor diameters, d_3 , for stress calculation
1	0,25	0	0,693
1,2	0,25	0	0,893
1,4	0,3	0	1,032
1,6	0,35	-19	1,152
1,8	0,35	-19	1,352
2	0,4	-19	1,490
2,5	0,45	-20	1,928
3	0,5	-20	2,367
3,5	0,6	-21	2,743
4	0,7	-22	3,119
5	0,8	-24	3,995
6	1	-26	4,747
7	1	-26	5,747
8	1	-26	6,747
8	1,25	-28	6,438
10	1	-26	8,747
10	1,25	-28	8,438
10	1,5	-32	8,128
12	1,25	-28	10,438
12	1,5	-32	10,128
12	1,75	-34	9,819
14	1,5	-32	12,128
14	2	-38	11,508
16	1,5	-32	14,128

Table A.1 (continued)

Nominal diameter d	Pitch P	es μm	External screw thread minor diameters, d_3 , for stress calculation
16	2	-38	13,508
18	1,5	-32	16,128
18	2	-38	15,508
18	2,5	-42	14,891
20	1,5	-32	18,128
20	2	-38	17,508
20	2,5	-42	16,891
22	1,5	-32	20,128
22	2	-38	19,508
22	2,5	-42	18,891
24	2	-38	21,508
24	3	-48	20,271
27	2	-38	24,508
27	3	-48	23,271
30	2	-38	27,508
30	3,5	-53	25,653
33	2	-38	30,508
33	3,5	-53	28,653
36	3	-48	32,271
36	4	-60	31,033
39	3	-48	35,271
39	4	-60	34,033
42	3	-48	38,271
42	4,5	-63	36,416
45	3	-48	41,271
45	4,5	-63	39,416
48	3	-48	44,271
48	5	-71	41,795
52	4	-60	47,033
52	5	-71	45,795
56	4	-60	51,033
56	5,5	-75	49,177
60	4	-60	55,033
60	5,5	-75	53,177
64	4	-60	59,033
64	6	-80	56,559