

ISO/TC 1

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ISO general purpose metric screw threads — Tolerances —

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

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Filetages métriques ISO pour usages généraux — Tolérances —

*Partie 2: Dimensions limites pour filetages intérieurs et extérieurs
d'usages généraux — Qualité moyenne*

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

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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*

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Clause 5, first paragraph

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

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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