
International Standard



3486

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Wrought copper and copper alloys — Cold-rolled flat products delivered in straight lengths (sheet) — Dimensions and tolerances

Cuivre et alliages de cuivre corroyés — Produits plats laminés à froid livrés en longueurs droites (tôles) — Dimensions et tolérances

First edition — 1980-05-01

UDC 669.3-415 : 669-122.2

Ref. No. ISO 3486-1980 (E)

Descriptors : copper, copper alloys, cold rolled products, metal sheet, grades (quality), dimensions, dimensional tolerances, form tolerances.

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3486 was developed by Technical Committee ISO/TC 26, *Copper and copper alloys*, and was circulated to the member bodies in January 1978.

It has been approved by the member bodies of the following countries :

Australia	France	Romania
Austria	Germany, F.R.	South Africa, Rep. of
Belgium	India	Spain
Bulgaria	Iran	Sweden
Canada	Japan	Switzerland
Czechoslovakia	Mexico	Turkey
Denmark	Netherlands	United Kingdom
Egypt, Arab Rep. of	Norway	Yugoslavia
Finland	Poland	

The member body of the following country expressed disapproval of the document on technical grounds :

USA

Wrought copper and copper alloys — Cold-rolled flat products delivered in straight lengths (sheet) — Dimensions and tolerances

1 Scope and field of application

This International Standard specifies dimensions and tolerances of cold-rolled flat products (sheet) made from copper and copper alloys in accordance with clause 4.

For dimensions and tolerances of cold-rolled flat products in coils or on reels, see ISO 3487.

2 References

ISO 497, *Guide to the choice of series of preferred numbers and of series containing more rounded values of preferred numbers.*

ISO 1634, *Wrought copper and copper alloys — Rolled flat products (plate, sheet, strip) — Mechanical properties.*

ISO 3487, *Wrought copper and copper alloys — Cold-rolled flat products in coils or on reels (strip) — Dimensions and tolerances.*

3 Dimensions and tolerances

3.1 Thickness (see table 1)

Nominal thickness should be selected from the R''20 series of preferred numbers, in accordance with ISO 497.

For sheet with a width over 50 mm the measurement of thickness should be made at a distance greater than 10 mm from the edge.

Table 1 — Tolerances on thickness

Values in millimetres

Thickness		± Tolerances on thickness, for widths											
>	<	≤ 350			> 350 ≤ 700			> 700 ≤ 1 000			> 1 000 ≤ 1 250		
		Class 1	Class 2	Class 3	Class 1	Class 2	Class 3	Class 1	Class 2	Class 3	Class 1	Class 2	Class 3
≥ 0,1	0,2	—	0,020	0,03	—	—	—	—	—	—	—	—	—
0,2	0,3	0,020	0,025	0,04	0,03	0,03	0,06	—	—	—	—	—	—
0,3	0,5	0,025	0,030	0,05	0,035	0,04	0,07	0,05	0,05	0,10	0,06	0,07	0,12
0,5	0,8	0,030	0,040	0,06	0,04	0,05	0,09	0,06	0,07	0,12	0,07	0,09	0,15
0,8	1,2	0,035	0,050	0,08	0,05	0,06	0,12	0,07	0,09	0,15	0,09	0,11	0,18
1,2	1,8	0,050	0,060	0,10	0,07	0,08	0,15	0,09	0,11	0,18	0,11	0,13	0,21
1,8	2,5	0,060	0,080	0,12	0,09	0,10	0,18	0,11	0,13	0,21	0,14	0,15	0,24
2,5	3,2	0,07	0,10	0,15	0,10	0,12	0,21	0,13	0,15	0,24	0,17	0,18	0,28
3,2	4,0	0,09	0,12	0,18	0,12	0,14	0,24	0,15	0,18	0,28	0,20	0,21	0,32
4,0	5,0	0,12	0,14	0,21	0,14	0,17	0,28	0,17	0,21	0,32	0,23	0,24	0,36
5,0	7,0	—	0,17	0,24	—	0,20	0,32	—	0,24	0,36	—	0,27	0,40
7,0	10,0	—	0,20	0,28	—	0,23	0,36	—	0,27	0,40	—	0,30	0,45