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Ground thread taps for ISO Metric threads of tolerance 4H to 8H and 4G to 6G coarse and fine pitches — Manufacturing tolerances on the threaded portion

AMENDMENT 1

Amendment 1 to International Standard ISO 2857-1973 was developed by Technical Committee ISO/TC 29, *Small tools*, and was circulated to the member bodies in January 1983.

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

Australia	Hungary	South Africa, Rep. of
Austria	India	Sweden
Belgium	Italy	Switzerland
China	Japan	United Kingdom
Czechoslovakia	Poland	USSR
Germany, F.R.	Romania	

The member bodies of the following countries expressed disapproval of the document on technical grounds:

France
USA

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Delete clause 4.4 and substitute:

4.4 Tolerances on the half-angle $\alpha/2$ of thread

The values for tolerances on the half-angle $\alpha/2$ are based on the pitch of the thread and shall be in accordance with the values of table 3.

Table 3 — Tolerances on the half-angle $\alpha/2$

Pitch	Tolerance on $\alpha/2$
0,2 0,25	$\pm 70'$
0,3 0,35 0,4	$\pm 50'$
0,45 0,5 0,6	$\pm 35'$
0,7 0,75 0,8	$\pm 30'$
1 1,25 1,5	$\pm 25'$
1,75 2 2,5 3	$\pm 20'$
3,5 4 4,5 5 5,5 6	$\pm 15'$

NOTE — For a given pitch, the half-angle tolerance $\alpha/2$ has been calculated so that the equivalent error on the virtual pitch diameter does not exceed a stated proportion of the pitch diameter tolerance T_{D_2} for the corresponding class 5 nut thread.

The stated proportion is 8 %, except for pitches finer than 0,4 mm where it is 10 %. The calculated values have been rounded off to the nearest 5' to bring them within the scope of practical measurement.