

INTERNATIONAL STANDARD



68

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

ISO general purpose screw threads — Basic profile

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, International Standard ISO 68 replaces ISO Recommendation R 68-1969 drawn up by Technical Committee ISO/TC 1, *Screw threads*.

The Member Bodies of the following countries approved the Recommendation :

Austria	Israel	South Africa, Rep. of
Belgium	Italy	Spain
Canada	Japan	Sweden
Chile	Korea, Rep. of	Switzerland
Czechoslovakia	Netherlands	Thailand
Cuba	New Zealand	Turkey
Denmark	Norway	U.A.R.
France	Peru	United Kingdom
Germany	Poland	U.S.S.R.
Hungary	Portugal	
India	Romania	

The Member Bodies of the following countries expressed disapproval of the Recommendation on technical grounds :

Australia
U.S.A.

ISO general purpose screw threads – Basic profile

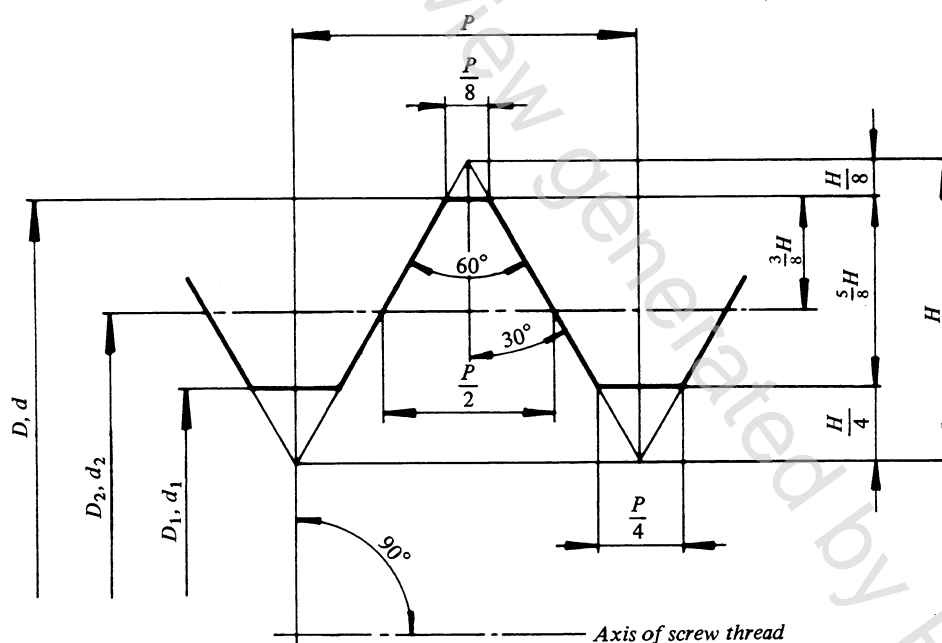
1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the basic profile for ISO general purpose metric and inch screw threads.

2 DEFINITION

basic profile : The theoretical profile, associated with the basic sizes of the major, pitch, and minor diameters of the thread.

The deviations are applied to these basic sizes.



- D = major diameter of internal thread
- d = major diameter of external thread
- D_2 = pitch diameter of internal thread
- d_2 = pitch diameter of external thread
- D_1 = minor diameter of internal thread
- d_1 = minor diameter of external thread
- P = pitch
- H = height of fundamental triangle