

Transformed

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1829

SELECTION OF TOLERANCE ZONES
FOR GENERAL PURPOSES

1st EDITION

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BRIEF HISTORY

The ISO Recommendation R 1829, *Selection of tolerance zones for general purposes*, was drawn up by Technical Committee ISO/TC 3, *Limits and fits*, the Secretariat of which is held by the Association Française de Normalisation (AFNOR).

Work on this question led to the adoption of Draft ISO Recommendation No. 1829, which was circulated to all the ISO Member Bodies for enquiry in April 1969. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Austria	Israel	Spain
Brazil	Japan	South Africa, Rep. of
Chile	Netherlands	Sweden
Czechoslovakia	New Zealand	Switzerland
Germany	Norway	Turkey
Greece	Peru	U.A.R.
Hungary	Poland	United Kingdom
India	Romania	U.S.S.R.

The following Member Bodies opposed the approval of the Draft :

Belgium
Canada
France
Portugal

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

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INTRODUCTION

ISO Recommendation R 286, *ISO System of limits and fits – Part 1 : General tolerances and deviations*, gives the possibility of a very wide choice among the various symbols for tolerance zones that it contains, even if this choice is limited only to those shown in the Appendix as corresponding to commonly used shafts and holes for general purposes.

1. SCOPE

The purpose of this ISO Recommendation is to avoid an unnecessary multiplicity of tools and gauges by restricting selection still further and guiding the user towards preferred tolerance zones for shafts and holes to be used in constituting fits.

It applies only to “General purposes” of ISO Recommendation R 286 (excluding therefore fine mechanisms and horology) and covers only the constitution of common use fits which do not require a more specific selection of tolerance zones (for example : keyways according to ISO Recommendations R 773 and 774).

It also gives some practical recommendations concerning the choice of such fits.