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**INTERNATIONAL STANDARD**



**582**

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

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**Rolling bearings — Metric series bearings —  
Chamfer dimension limits and maximum shaft  
and housing fillet radius**

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**Descriptors** : rolling bearings, chamfering, shafts (machine elements), dimensions, limits.

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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.

International Standard ISO 582 (originally Draft International Standard ISO/DIS 1978) was drawn up by Technical Committee ISO/TC 4, *Rolling bearings*.

It was approved in June 1971 by the Member Bodies of the following countries :

Austria	India	Switzerland
Belgium	Italy	Thailand
Canada	Korea, Rep. of	Turkey
Czechoslovakia	Netherlands	United Kingdom
Egypt, Arab Rep. of	South Africa, Rep. of	U.S.A.
Germany	Spain	U.S.S.R.
Greece	Sweden	

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

Australia	Japan
France	Romania
Hungary	

This International Standard cancels and replaces ISO Recommendation R 582-1967.

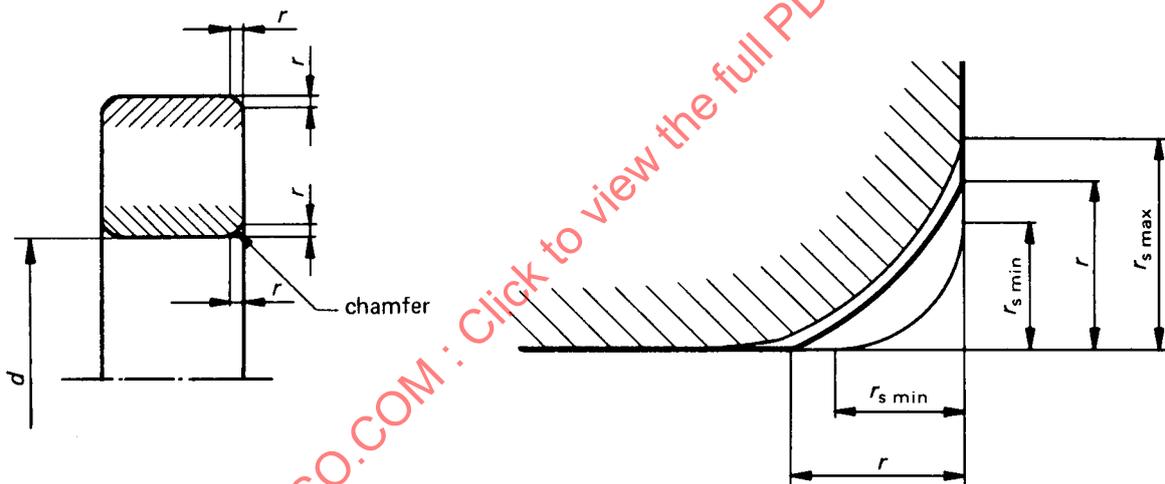
# Rolling bearings — Metric series bearings — Chamfer dimension limits and maximum shaft and housing fillet radius

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the chamfer dimension limits for rolling bearing rings according to the general plan for boundary dimensions in the relevant ISO publications. The corresponding maximum shaft and housing fillet radius is also given.

It does not apply to the chamfer  $r_1$  on the front face of tapered roller bearing rings.

## 2 SYMBOLS



- $d$  = Nominal bearing bore diameter  
 $r$  = Nominal chamfer dimension  
 $r_{s \min}$  = The smallest single chamfer dimension  
 $r_{s \max}$  = The largest single chamfer dimension  
 $r_{as \max}$  = The largest single shaft and housing fillet radius

NOTE — In the axial direction the  $r_{s \max}$  values given in the table may be slightly exceeded because the NOT-GO tolerance limit for the diameters of the bore and outside surface does not necessarily apply for a distance of up to twice  $r$  from the ring side face.