

# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

## ISO RECOMMENDATION R 1160

ROLLING BEARINGS

ROLLING BEARINGS FOR RAILWAY AXLE-BOXES  
ACCEPTANCE INSPECTION

1st EDITION

January 1970

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Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.



## ROLLING BEARINGS

### ROLLING BEARINGS FOR RAILWAY AXLE-BOXES

#### ACCEPTANCE INSPECTION

#### 1. SCOPE

This ISO Recommendation deals with the supply of rolling bearings for railway axle-boxes. It specifies technical requirements, properties and tolerances and provides the relevant inspection methods applicable to acceptance inspection. It excludes trade clauses in current use, such as guarantees, which are covered by agreements between customer and supplier.

Three types of rolling bearings for railway axle-boxes are considered in this ISO Recommendation :

- cylindrical roller bearings;
- tapered roller bearings;
- self-aligning roller bearings.

Bearings may have either cylindrical or tapered bore.

#### 2. PROPERTIES, REQUIREMENTS AND TOLERANCES

##### 2.1 General inspection

Independent of any other inspection considered necessary by the supplier to guarantee the quality of his product, the following properties of all bearings should be compulsorily checked by the supplier, possibly in the presence of the customer.

###### 2.1.1 *Dimensions and appearance*

###### 2.1.2 *Functioning*

##### 2.2 Sampling inspection

On each sample bearing the customer may inspect, at his discretion, all or some of the following properties :

###### 2.2.1 *Appearance*. All essential portions of the roller bearings should be clean and free from defects such as : porosity, burrs, hardening cracks, grinding marks, indentations, rust marks, etc.

Surfaces other than

- those portions of the roller faces which are not in contact with the ring ribs,
- the roller chamfers, and
- the reliefs at the ends of the outer and inner ring raceways,

should be smooth.