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Abrasive belts — Designation, dimensions and tolerances

Bandes abrasives — Désignation, dimensions et tolérances

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Descriptors : tools, abrasives, abrasive belts, designation, dimensions.

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, Technical Committee ISO/TC 29 has reviewed ISO Recommendation R 1929 and found it technically suitable for transformation. International Standard ISO 1929 therefore replaces ISO Recommendation R 1929-1970 to which it is technically identical.

ISO Recommendation R 1929 was approved by the Member Bodies of the following countries :

| | | |
|---------------------|-----------------------|----------------|
| Czechoslovakia | Israel | Spain |
| Egypt, Arab Rep. of | Italy | Sweden |
| France | Japan | Switzerland |
| Germany | Netherlands | Thailand |
| Greece | Poland | United Kingdom |
| Hungary | Portugal | U.S.S.R. |
| India | Romania | |
| Ireland | South Africa, Rep. of | |

The Member Body of the following country expressed disapproval of the Recommendation on technical grounds :

Belgium

The Member Body of the following country disapproved the transformation of ISO/R 1929 into an International Standard :

India

Abrasive belts – Designation, dimensions and tolerances

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies characteristics of abrasive belts in general.

It includes

- a) the designation;
- b) the following nominal dimension ranges, and tolerances on those dimensions :
 - widths : 2,5 to 2 650 mm;
 - lengths : 400 to 12 500 mm.
- c) tolerances on cylindricity.

2 REFERENCE

ISO 2976, *Abrasive belts – Selection of width/length combinations.*

3 DESIGNATION

The designation of abrasive belts includes, in the following order, the width / followed by the length L.

Example : Designation of an abrasive belt of width / 150 mm and of length L 4 500 mm :

Abrasive belt 150 × 4 500

4 NOMINAL DIMENSION RANGES AND TOLERANCES

4.1 Widths / and tolerances

Dimensions in millimetres

| / | | / | | / | | / | | / | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Dimension | Tolerance | Dimension | Tolerance | Dimension | Tolerance | Dimension | Tolerance | Dimension | Tolerance |
| 2,5 | ± 1 | 50 | ± 1 | 300 | ± 2 | 1 060 | + 3 | 1 900 | ± 3 |
| 5 | | 60 | 350 | 1 120 | | 2 000 | | | |
| 7,5 | | 75 | 400 | 1 180 | | 2 120 | | | |
| 10 | | 100 | 450 | 1 250 | | 2 240 | | | |
| 12,5 | | 125 | 500 | 1 320 | | 2 360 | | | |
| 15 | | 150 | 600 | 1 400 | | 2 500 | | | |
| 20 | | 175 | 700 | 1 500 | | 2 650 | | | |
| 25 | | 200 | 800 | 1 600 | | | | | |
| 30 | | 225 | 900 | 1 700 | | | | | |
| 40 | | 250 | 1 000 | 1 800 | | | | | |