

International Standard



3017

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

Abrasive discs — Designation, dimensions and tolerances — Selection of disc outside diameter/centre hole diameter combinations

Disques abrasifs — Désignation, dimensions et tolérances — Sélection des combinaisons diamètre extérieur du disque × diamètre de l'alésage

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Descriptors : tools, abrasives, abrasive discs, designation, dimensions, dimensional tolerances, diameters.

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 3017 was developed by Technical Committee ISO/TC 29, *Small tools*, and was circulated to the member bodies in June 1979.

It has been approved by the member bodies of the following countries:

Australia	India	South Africa, Rep. of
Belgium	Israel	Spain
Bulgaria	Italy	Sweden
China	Korea, Rep. of	Switzerland
Czechoslovakia	Libyan Arab Jamahiriya	United Kingdom
France	Netherlands	USA
Germany, F. R.	Poland	USSR
Hungary	Romania	Yugoslavia

The member body of the following country expressed disapproval of the document on technical grounds:

Japan

This second edition cancels and replaces the first edition (i.e. ISO 3017-1973).

Abrasive discs — Designation, dimensions and tolerances — Selection of disc outside diameter/centre hole diameter combinations

1 Scope and field of application

This International Standard specifies the designation system, dimensions in millimetres and dimensional tolerances for abrasive discs intended for use on portable machines.

It also establishes a selection of disc outside diameter/centre hole diameter combinations.

2 Reference

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications*.

3 Designation

3.1 Abrasive discs without holes

An abrasive disc without a hole is designated by its diameter D .

Example of the designation of an abrasive disc without a hole, having an outside diameter $D = 140$ mm :

Abrasive disc D 140

3.2 Abrasive discs with round centre holes (with or without slots)

Abrasive discs with holes are designated by the outside diameter D and the diameter of the hole d , in that order.

Example of the designation of an abrasive disc with outside diameter $D = 140$ mm and hole diameter $d = 22$ mm :

Abrasive disc D 140 × 22

4 Nominal dimensions and tolerances, in millimetres

4.1 Range of outside diameter D and tolerances

See table 1.

4.2 Range of hole diameters d and tolerances

See table 2.

NOTE — These tolerances are valid only for abrasive discs as supplied by the manufacturer and measured under the conditions of reference of the place where these products are manufactured :

- | | |
|------------------------------------|---------------------|
| — Temperature : 20 ± 2 °C | } following ISO 554 |
| — Relative humidity : 65 ± 5 % | |

Measurements should be carried out on materials stored for at least 24 h under the conditions as mentioned above.

5 Combinations

See table 3.