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# International Standard



# 3017

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

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## **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*

**Second edition — 1981-10-15**

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[ISO 3017:1981](#)

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**UDC 621.922.025**

**Ref. No. ISO 3017-1981 (E)**

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

## Foreword

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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.

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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

## iTeh STANDARD PREVIEW (standards.iteh.ai)

### 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 :  $20 \pm 2$  °C
  - Relative humidity :  $65 \pm 5$  %
- } following ISO 554

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

### 5 Combinations

See table 3.

Table 1

<i>D</i>	80	100	115	125	140	150	180	200	235
<b>Tolerances</b>	± 2			± 3					

Table 2

<i>d</i>	8	12	22	40
<b>Tolerances</b>	+ 1 0			

Table 3

Centre-hole diameter <i>d</i>	Disc outside diameter <i>D</i>									
	80	100	115	125	140	150	180	200	235	
6	X	X	X	X						
8	X	X	X	X						
12	X	X	X	X	X	X	X			
22	X	X	X	X	X	X	X	X	X	
40							X	X	X	

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