

# INTERNATIONAL STANDARD

# ISO 21950

First edition  
2001-04-01

---

---

## Coated abrasives — Plain discs

*Produits abrasifs appliqués — Disques simples*

STANDARDSISO.COM : Click to view the full PDF of ISO 21950:2001



Reference number  
ISO 21950:2001(E)

© ISO 2001

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

STANDARDSISO.COM : Click to view the full PDF of ISO 21950:2001

© ISO 2001

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.ch](mailto:copyright@iso.ch)  
Web [www.iso.ch](http://www.iso.ch)

Printed in Switzerland

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 21950 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 5, *Grinding wheels and abrasives*.

STANDARDSISO.COM : Click to view the full PDF of ISO 21950:2001



## Coated abrasives — Plain discs

### 1 Scope

This International Standard specifies the nominal dimensions, tolerances and designations of plain discs.

It applies to plain discs intended for use on mobile and hand held grinding machines.

### 2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 554:1976, *Standard atmospheres for conditioning and/or testing — Specifications.*

### 3 Requirements

#### 3.1 Types and dimensions

See Figures 1 and 2 and Table 1.

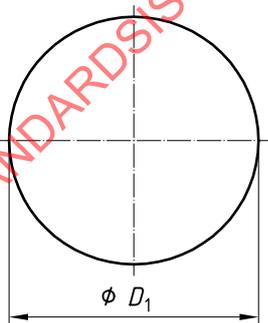


Figure 1 — Type A disc

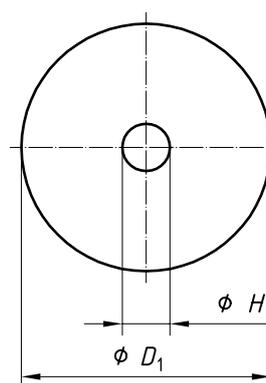


Figure 2 — Type B disc

Table 1 — Dimensions

Dimensions in millimeters

Type	$D_1$	Limit deviations	$H$	Limit deviations
A	80	± 1,5	—	—
	100			
	115			
	125	± 2		
	140			
	150			
	180			
	200	± 3		
235				
B	80	± 1,5	8	+1 0
	100		8	
			12	
			22	
			8	
	115		12	
		22		
		125	8	+1 0
			12	
	22			
	12			
	140	22		
		12		
		150	12	
			22	
	180		12	
			22	
		40		
		200	22	+1 0
	40			
235	22			
	40			
235	± 3	22	+1 0	
		40		

### 3.2 Test conditions

The limit deviations given in Table 1 are valid under the following conditions:

- |  |   |                            |
|--|---|----------------------------|
| <ul style="list-style-type: none"> <li>— Temperature: <math>20\text{ °C} \pm 2\text{ °C}</math></li> <li>— Relative humidity: <math>65\% \pm 5\%</math></li> </ul> | } | in accordance with ISO 554 |
|--|---|----------------------------|

When plain discs are tested they shall be stored for at least 24 h under the above conditions.

### 4 Designation

A plain disc conforming to this International Standard shall be designated by

- a) "Plain disc";
- b) reference to this International Standard, i.e. ISO 21950;
- c) type A or B;
- d) outside diameter,  $D_1$ , in millimetres;
- e) inside diameter,  $H$ , for type B, in millimetres.

EXAMPLE A plain disc of Type B with outside diameter  $D_1 = 115$  mm and  $H = 22$  mm is designated as follows:

**Plain disc ISO 21950 B 115 × 22**

### 5 Marking

Plain discs shall be marked with

- a) grain size;
- b) manufacturer, supplier, importer or their registered trademark.

## Bibliography

- [1] ISO 6344-1:1998, *Coated abrasives — Grain size analysis — Part 1: Grain size distribution test.*
- [2] ISO 6344-2:1998, *Coated abrasives — Grain size analysis — Part 2: Determination of grain size distribution of macrogrits P12 to P220.*
- [3] ISO 6344-3:1998, *Coated abrasives — Grain size analysis — Part 3: Determination of grain size distribution of microgrits P240 to P2500.*

STANDARDSISO.COM : Click to view the full PDF of ISO 21950:2001