



**International
Standard**

ISO 21951

**Coated abrasives — Plain discs with
holes for dust extraction**

*Produits abrasifs appliqués — Disques simples avec trous pour
extraction de la poussière*

**Second edition
2024-10**

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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

This second edition cancels and replaces the first edition (ISO 21951:2001), which has been technically revised.

The main changes are as follows:

- addition of new type C;
- dimensions added for types A, B and C.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Coated abrasives — Plain discs with holes for dust extraction

1 Scope

This document specifies the nominal dimensions of plain discs with holes for dust extraction.

Plain discs in accordance with this document are intended for use on disc sanders with dust extraction.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Types and dimensions

4.1 Types

See [Figures 1, 2 and 3](#) and [Table 1](#).

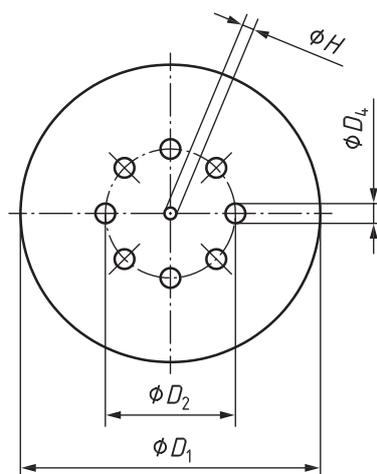


Figure 1 — Type A disc

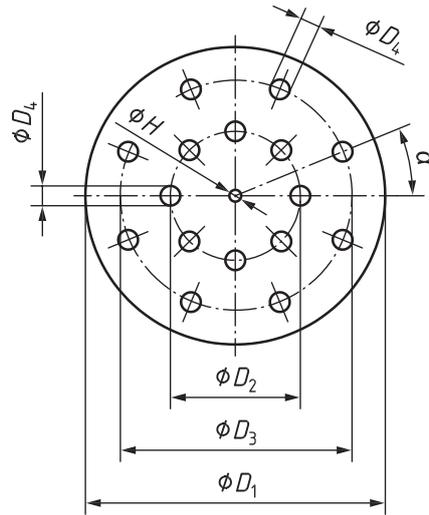


Figure 2 — Type B disc

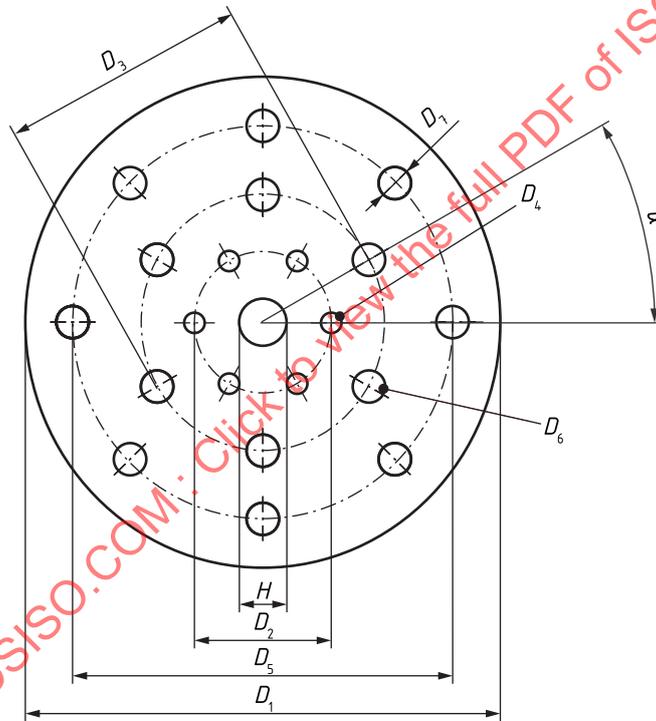


Figure 3 — Type C disc

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Table 1 — Dimensions

Dimensions in millimetres

Type	Nominal code	D_1	Limit deviations	D_2	D_4	D_3	D_6	D_5	D_7	H	α	Number of holes per circle ($D_2/D_3/D_5$)			
A	1	80	±1,5	50	±0,5	—	±0,5	±1	±0,5	—	—	6			
	2	100		65								8			
	3	115	41	4											
	4	115	65	8											
	5	125	41	4											
	6	125	65	8											
	7	125	72	10								5			
	8	150	65	—								8			
	9	150	65	—								8			
	10	150	80	—								6			
	11	150	80	—								6			
	12	150	120	—								6			
	13	200	120	—								8			
B	1	150	±2	128	10	116	—	—	—	6	22,5°	8/8			
				65								8	120	8/8	
				80								10	120	6/8	
				90								12	140	8/8	
	2	180	±2	105	12	150	12	12	12	6	6	22,5°	8/8		
				200									14	150	8/8
				230									14	150	8/8
				150									6	80	6/6/8
C	1	150	±2	44	6	80	10	120	10	15	30	6/6/8			

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4.2 Test conditions

The limit deviations given in [Table 1](#) are valid under the following conditions:

- Temperature: $20\text{ °C} \pm 2\text{ °C}$
 - Relative humidity: $65\% \pm 5\%$
- } shall be in accordance with ISO 554

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

5 Designation

A plain disc with holes for dust extraction conforming to this document shall be designated by

- a) "Abrasive disc";
- b) a reference to this document, i.e. ISO 21951;
- c) type A or B;
- d) nominal code.

EXAMPLE A plain disc of Type A with nominal code 4 is designated as follows:

Plain disc ISO 21951 A 4

6 Marking

Plain discs with holes for dust extraction shall be marked with

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