INTERNATIONAL STANDARD

ISO 1929

Second edition
1993-07-15

Abrasive belts — Dimensions, tolerances and designation

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Bandes abrasives — Dimensions, tolérances et désignation

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ISO 1929:1993
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Reference number
ISO 1929:1993(E)

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.

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.

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International Standard ISO 1929 was prepared by Technical Committee ISO/TC 29, *Small tools*, Sub-Committee SC 5, *Grinding wheels and abrasives*.

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This second edition cancels and replaces the first edition (ISO 1929:1974), of which the table in subclause 4.2 (corresponding to table 2 in the present edition) has been technically revised.

Annex A of this International Standard is for information only.

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Abrasive belts — Dimensions, tolerances and designation

1 Scope

This International Standard specifies the dimensions and tolerances, in millimetres, of abrasive belts in general, and their designation.

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2 Nominal dimensions and tolerances

2.1 Widths, l

See table 1.

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2.2 Lengths, L

See table 2.

3 Cylindricity tolerances

The tolerance on cylindricity is the length difference which may exist between the two edges of an abrasive belt.

This length difference shall not exceed

a) 5 mm for belts of width $l \geqslant 1\,000$ mm;

b) 3 mm for belts of width $l < 1\,000$ mm.

4 Designation

An abrasive belt conforming to this International Standard shall be designated by

a) "Abrasive belt";

b) reference to this International Standard;

c) the width, l, in millimetres;

d) the length, L, in millimetres.

EXAMPLE

An abrasive belt of width $l = 150$ mm and of length $L = 4\,500$ mm is designated as follows:

Abrasive belt ISO 1929 - 150 × 4 500

Table 1

l		*l*		*l*		*l*		*l*	
nom.	tol.	nom.	tol.	nom.	tol.	nom.	tol.	nom.	tol.
2,5	± 1	50	± 1	300	± 2	1 060	± 3	1 900	± 3
5		60	± 2	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			

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Table 2

L		*L*			*L*			*L*	
nom.	tol.	nom.	tol.		nom.	tol.		nom.	tol.
	l ⩽ 1 000		*l* ⩽ 1 000	*l* > 1 000		*l* ⩽ 1 000	*l* > 1 000		
400	± 3	1 000	± 3	—	2 500	± 5	± 10	6 300	± 20
450		1 120	± 5	± 10	2 800			7 100	
500		1 250			3 150			8 000	
560		1 400			3 550			9 000	
630		1 600			4 000			10 000	
710		1 800			4 500	± 10		11 200	
800		2 000			5 000			12 500	
900		2 240			5 600			—	

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NOTE — These tolerances are valid only for abrasive belts as supplied by the manufacturer and measured under the following conditions:

— Temperature: 20 °C ± 2 °C (in accordance with ISO 554)

— Relative humidity: 65 % ± 5 % (in accordance with ISO 554)

Subsequent variations if any, for example storage conditions, elongation or shrinkage of the material during use, etc., are not included in these values.

Annex A
(informative)

Bibliography

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

[2] ISO 2976:1973, *Abrasive belts — Selection of width/length combinations.*

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