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Abrasive belts — Dimensions, tolerances and designation

Bandes abrasives — Dimensions, tolérances et désignation



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Foreword

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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.

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

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.

2 Nominal dimensions and tolerances

2.1 Widths, l

See table 1.

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 $l \geq 1\,000$ 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

<i>l</i>		<i>l</i>		<i>l</i>		<i>l</i>		<i>l</i>	
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	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					

Table 2

<i>L</i>		<i>L</i>			<i>L</i>			<i>L</i>	
nom.	tol.	nom.	tol.		nom.	tol.		nom.	tol.
	<i>l</i> ≤ 1 000		<i>l</i> ≤ 1 000	<i>l</i> > 1 000		<i>l</i> ≤ 1 000	<i>l</i> > 1 000		
400	± 3	1 000	± 3	± 5	2 500	± 5	± 10	6 300	± 20
450		1 120	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		11 200				
800		2 000	5 000		12 500				
900		2 240	5 600		—				

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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