

# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

## ISO RECOMMENDATION R 565

WOVEN WIRE CLOTH AND PERFORATED PLATES  
IN TEST SIEVES  
NOMINAL SIZES OF APERTURES

1st EDITION  
April 1967

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## BRIEF HISTORY

The ISO Recommendation R 565, *Woven Wire Cloth and Perforated Plates in Test Sieves – Nominal Sizes of Apertures*, was drawn up by Technical Committee ISO/TC 24, *Sieves, Sieving and other Sizing Methods*, the Secretariat of which is held by the Deutscher Normenausschuss (DNA).

Work on this question by the Technical Committee began in 1956 and led, in 1964, to the adoption of a Draft ISO Recommendation.

In April 1965, this Draft ISO Recommendation (No.805) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies:

Brazil	Ireland	U.A.R.
Canada	Israel	United Kingdom
Chile	Netherlands	U.S.A.
France	New Zealand	U.S.S.R.
Germany	Sweden	Yugoslavia
Hungary	Switzerland	
India	Turkey	

One Member Body opposed the approval of the Draft:

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Italy

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in April 1967, to accept it as an ISO RECOMMENDATION.

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**WOVEN WIRE CLOTH AND PERFORATED PLATES  
IN TEST SIEVES  
NOMINAL SIZES OF APERTURES**

**1. SCOPE**

This ISO Recommendation gives the nominal sizes of apertures for woven wire cloth and perforated plates in test sieves.

**2. TYPE OF SIEVING MEDIA IN TEST SIEVES**

- 2.1** Woven wire cloth consists of wires woven to form nominally square apertures.
- 2.2** Perforated plates are metal plates with either square or circular holes in regular arrangement.

**3. DESIGNATION**

- 3.1** Woven wire cloth in test sieves is designated according to nominal size of the square aperture.
- 3.2** Perforated plates in test sieves are designated according to nominal size of the square aperture, or nominal diameter of the round aperture. In addition, the type of hole, *square* or *round*, should be stated.
- 3.3** Sizes below 1 mm are expressed in microns ( $\mu\text{m}$ )\*; sizes of 1 mm and above, in millimetres (mm).

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\* 1000  $\mu\text{m}$  = 1 mm

## 4. NOMINAL SIZES OF APERTURES

## 4.1 Principal sizes

TABLE 1

Woven wire cloth	Perforated plates	
	Nominal size of square hole	Nominal size of round hole
	mm	mm
125	125	125
90.0	90	90
63.0	63	63
45.0	45	45
31.5	31.5	31.5
22.4	22.4	22.4
16.0	16	16
11.2	11.2	11.2
8.00	8	8
5.6	5.6	5.6
4.00	4	4
2.8		2.8
2.00		2
1.4		1.4
1.00		1
$\mu\text{m}$		
710		
500		
355		
250		
180		
125		
90		
63		
45		

NOTE. — The nominal sizes listed above are selected from the R 20 series of preferred numbers. \*

\* ISO Recommendation R 3, *Preferred numbers — Series of preferred numbers.*

## 4.2 Supplementary sizes

TABLE 2

Woven wire cloth	Perforated plates	
	Nominal size of square hole	Nominal size of round hole
	mm	mm
100	100	100
80.0	80	80
50.0	50	50
40.0	40	40
25.0	25	25
20.0	20	20
12.5	12.5	12.5
10.0	10	10
6.30	6.3	6.3

NOTE. — The nominal sizes listed above are selected from the R 10 series of preferred numbers.\*

- 4.3 It is recommended that national standards and ISO Recommendations concerned with the sizing of particulate materials be based on the nominal sizes listed in Tables 1 and 2.

Pending the derivation of a more extensive ISO series of apertures, it is recommended that Member Bodies requiring sizes additional to those stated in Tables 1 and 2 should select them from the R 10, R 20 or R 40 series of preferred numbers in accordance with ISO Recommendation R 3.\*

\* ISO Recommendation R 3, *Preferred numbers — Series of preferred numbers.*