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Test sieves — Technical requirements and testing —

Part 1:

Test sieves of metal wire cloth

Tamis de contrôle — Exigences techniques et vérifications —

Partie 1: Tamis de contrôle en tissus métalliques

ISO 3310-1:1990

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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 3310-1 was prepared by Technical Committee ISO/TC 24, *Sieves, sieving and other sizing methods*.

This third edition cancels and replaces the second edition (ISO 3310-1:1982), of which it constitutes a technical revision.

ISO 3310 consists of the following parts, under the general title *Test sieves — Technical requirements and testing* :

- Part 1: *Test sieves of metal wire cloth*
- Part 2: *Test sieves of perforated metal plate*
- Part 3: *Test sieves of electroformed sheets*

Annex A of this part of ISO 3310 is for information only.

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Introduction

As the accuracy of test sieving depends on the dimensional accuracy of the test sieve openings, it was considered necessary in this part of ISO 3310 to keep the tolerances on the apertures in metal wire cloth as close as possible.

Requirements other than tolerances on the apertures, such as requirements for the wire diameter, have not been limited more closely than necessary, since the influence of these criteria on test sieving is of minor importance, and excessively strict requirements may make manufacturing unnecessarily difficult.

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Test sieves — Technical requirements and testing —

Part 1:

Test sieves of metal wire cloth

1 Scope

This part of ISO 3310 specifies the technical requirements and corresponding test methods for test sieves of metal wire cloth.

It applies to test sieves having aperture sizes from 125 mm down to 20 μm , in accordance with ISO 565.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 3310. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 3310 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 565:1990, *Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings*.

ISO 2395:—¹⁾, *Test sieves and test sieving — Vocabulary*.

3 Definitions

For the purposes of this part of ISO 3310, the definitions given in ISO 2395 apply.

4 Designation

4.1 Test sieves of metal wire cloth shall be designated by the nominal size of the apertures of the metal wire cloth.

4.2 Nominal sizes of 1 mm and above shall be expressed in millimetres (mm); nominal sizes below 1 mm shall be expressed in micrometres (μm).

5 Metal wire cloth

5.1 Requirements

Aperture tolerances and wire diameters shall be as specified in table 1 and table 2.

1) To be published. (Revision of ISO 2395:1972.)

Table 1 — Aperture tolerances and wire diameters — Millimetre sizes

Nominal aperture sizes ¹⁾ <i>w</i>			Tolerances on aperture size			Wire diameters <i>d</i>		
Principal sizes R 20/3	Supplementary sizes		For any aperture size + <i>X</i>	For average aperture size ± <i>Y</i>	Intermediate tolerance + <i>Z</i>	Preferred sizes <i>d</i> _{nom}	Permissible range of choice <i>d</i> _{max} <i>d</i> _{min}	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
125	125	125	4,51	3,66	4,09	8	9,2	6,8
	112		4,15	3,29	3,72	8	9,2	6,8
	100	106	3,99	3,12	3,55	6,3	7,2	5,4
90	90	90	3,82	2,94	3,38	6,3	7,2	5,4
	80		3,53	2,66	3,09	6,3	7,2	5,4
	71	75	3,24	2,37	2,8	6,3	7,2	5,4
63	63	63	3,09	2,22	2,65	6,3	7,2	5,4
	56		2,97	2,1	2,54	5,6	6,4	4,8
	50	53	2,71	1,87	2,29	5,6	6,4	4,8
45	45	45	2,49	1,67	2,08	5	5,8	4,3
	40		2,39	1,58	1,99	5	5,8	4,3
	35,5	37,5	2,29	1,49	1,89	5	5,8	4,3
31,5	31,5	31,5	2,12	1,35	1,73	4,5	5,2	3,8
	28		1,94	1,2	1,57	4,5	5,2	3,8
	25	26,5	1,85	1,13	1,49	4,5	5,2	3,8
22,4	22,4	22,4	1,78	1,07	1,42	4	4,6	3,4
	20		1,63	0,95	1,29	4	4,6	3,4
	18	19	1,5	0,85	1,17	3,55	4,1	3
16	16	16	1,44	0,8	1,12	3,55	4,1	3
	14		1,38	0,76	1,07	3,55	4,1	3
	12,5	13,2	1,27	0,68	0,98	3,55	4,1	3
11,2	11,2	11,2	1,17	0,61	0,89	3,15	3,6	2,7
	10		1,13	0,58	0,85	3,15	3,6	2,7
	9	9,5	1,08	0,55	0,82	3,15	3,6	2,7
8	8	8	0,99	0,49	0,74	3,15	3,6	2,7
	7,1		0,9	0,43	0,67	2,8	3,2	2,4
	6,3	6,7	0,86	0,41	0,64	2,8	3,2	2,4
5,6	5,6	5,6	0,83	0,39	0,61	2,5	2,9	2,1
	5		0,77	0,35	0,56	2,5	2,9	2,1
	4,5	4,75	0,71	0,31	0,51	2,5	2,9	2,1
4	4	4	0,68	0,3	0,49	2,24	2,6	1,9
			0,65	0,28	0,47	2,24	2,6	1,9
			0,6	0,25	0,43	2	2,3	1,7
			0,55	0,22	0,38	1,8	2,1	1,5
			0,53	0,21	0,37	1,8	2,1	1,5
			0,51	0,2	0,35	1,8	2,1	1,5
			0,47	0,18	0,32	1,6	1,9	1,3
			0,43	0,16	0,29	1,6	1,9	1,3
			0,41	0,15	0,28	1,6	1,9	1,3
			0,4	0,14	0,27	1,4	1,7	1,2
			0,37	0,13	0,25	1,4	1,7	1,2