

ICS 19.120
CCS A28



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 6003.1-2022

**Test sieves-Technical requirements and testing-Part 1:Test
sieves of metal wire cloth**

试验筛 技术要求和检验 第1部分：金属丝编织网试验筛
(English Translation)

Issued on: October 12, 2022

Implemented on: October 12, 2022

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

Table of Contents

Foreword...	3
Introduction...	6
1 Scope...	7
2 Normative References...	7
3 Terms and Definitions...	7
4 Markings...	8
5 Metal Wire Cloth...	8
5.1 Technical requirements...	8
5.1.1 Aperture size deviation and standard deviation...	12
5.1.2 Wire diameter...	15
5.2 Test methods...	15
5.2.1 General requirements...	15
5.2.2 Visual examination of general condition of the wire cloth...	15
5.2.3 Inspection aperture size limit deviation X...	15

Foreword

This Document was drafted as per the rules specified in GB/T 1.1-2020 Directives for Standardization - Part 1.Rules for the Structure and Drafting of Standardizing Documents.

This Document is Part 1 of GB/T 6003 Test Sieves - Technical Requirements and Testing. GB/T

6003 has published the following parts.

- Part 1.Test Sieves of Metal Wire Cloth;
- Part 2.Test Sieves of Perforated Metal Plate;
- Part 3.Test Sieves of Electroformed Sheets.

This Document replaced GB/T 6003.1-2012 Test Sieves - Technical Requirements and Testing

- Part 1.Test Sieves of Metal Wire Cloth. Compared with GB/T 6003.1-2012, the major technical changes of this Document are as follows besides the structural adjustments and

editorial modifications.

- Delete the relevant provisions of "unit" (see 4.2 of 2012 Edition);
- Change the relevant provisions of aperture size deviation, aperture size limit deviation, average aperture size deviation and maximum standard deviation (see 5.1.1 of this Edition; 5.1.1 of 2012 Edition);
- Increase the description and calculation formula of the maximum standard deviation σ_0 (see 5.1.1.4 of this Edition);
- Change the expression of the predicted standard deviation value; and change the "predicted standard deviation value" into "the estimated standard deviation value" (see

5.1.1.4 of this Edition; 5.1.1.4 of 2012 Edition);

- Delete the recommended materials (see 5.1.2.4 of 2012 Edition);
- Change the general requirements (see 5.2.1 of this Edition; 5.2.1 of 2012 Edition);
- Change the expression of the detection of the aperture size limit deviation X (see 5.2.3 of this Edition; 5.2.3 of 2012 Edition);
- Change the relevant provisions of the sampling instructions in the measurement of the deviation σ_0 and the wire diameter d (see 5.2.4 of this Edition; 5.2.4 of 2012 Edition);
- Change the relevant provisions of the test sieve frame (see Clause 6 of this Edition; Clause 6 of 2012 Edition);
- Change the relevant provisions on the identification of test sieves (see Clause 7 of this Edition; Clause 8 of 2012 Edition).

This Document modified and adopted ISO 3310-1:2016 Test Sieves - Technical Requirements

and Testing - Part 1. Test Sieves of Metal Wire Cloth.

Compared with ISO 3310-1:2016, this Document made the following structural adjustments.

- 5.2.1 corresponds to 5.2 overview in ISO 3310-1:2016; and 5.2.2~5.2.4 corresponds to

5.2 "Test 1" to "Test 3" in ISO 3310-1:2016.

There are technical differences between this Document and ISO 3310-1:2016; and the clauses

involved in these differences have been marked by a vertical single line (-) in the outer margin

of the Document. The technical differences and their causes are as follows.

--- Replace ISO 2395:1990 with the normative reference GB/T 5329; and revise the degree of consistency between the two documents to adapt to the technical conditions of China;

--- Replace ISO 565:1990 with the normative reference GB/T 6005-2008; and revise the degree of consistency between the two documents to adapt to the technical conditions of China;

--- Delete 4.2; merge relevant content with 5.1; and merge the same description content;

--- Add examples of test sieve markings, standardizing product identification.

Please note some contents of this Document may involve patents. The issuing agency of this

Document shall not assume the responsibility to identify these patents.

This Document was proposed by and under the jurisdiction of National Technical Committee

on Particle Characterization and Sorting and Screen of Standardization Administration of China

(SAC/TC 168).

Drafting organizations of this Document. Xinxiang Bashan Aero Material Co., Ltd.; China

Productivity Center for Machinery; Anhui Dingheng Industry Group Co., Ltd.; Verder Shanghai

Instruments and Equipment Co., Ltd.; Zhejiang Laien Filtration System Co., Ltd.; Xinxiang

Xinhang Silk Screen Filter Co., Ltd.; and China Jiliang University.

Chief drafting staffs of this Document. Bai Qianyang, Hou Changge, Bi Ran, Dong Liang, Deng

Qinglin, Song Guojian, Jia Lijun, Zhang Yu, Cheng Jingqing, and Zhu Peiwu.

The historical editions replaced by this Document are as follows.

- GB/T 6003-1985 was first-time published in 1985;
- GB/T 6003.1-1997 was first-time revised in 1997; and second-time revised in 2012;
- It is the third-time revised hereby.

1 Scope

This Document 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 μ m, in accordance with

GB/T 6005-2008.

2 Normative References

The provisions in following documents become the essential provisions of this Document through reference in this Document. For the dated documents, only the versions with the dates

indicated are applicable to this Document; for the undated documents, only the latest version

(including all the amendments) is applicable to this Document.

GB/T 5329 Test Sieves and Test Sieving - Vocabulary (GB/T 5329-2003, iso 2395.1990, MOD)

GB/T 6005-2008 Test Sieves - Metal Wire Cloth Perforated Metal Plate and Electroformed Sheet - Nominal Sizes of Openings (ISO 565.1990, MOD)

3 Terms and Definitions

For the purposes of this Document, the terms and definitions given in GB/T 5329 and the following apply.

< Particle size analysis> measuring instrument used for sieving.

4.1 The marking of test sieve of metal wire cloth consists of sieve frame size, basic aperture

size, and metal wire diameter (referred to as "wire diameter").