

INTERNATIONAL STANDARD

ISO
3310-3

First edition
1990-07-15

Test sieves — Technical requirements and testing —

Part 3:

Test sieves of electroformed sheets

*Tamis de contrôle — Exigences techniques et vérifications —
Partie 3: Tamis de contrôle en feuilles électroformées*



Reference number
ISO 3310-3:1990(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.

International Standard ISO 3310-3 was prepared by Technical Committee ISO/TC 24, *Sieves, sieving and other sizing methods*.

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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Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Introduction

Since the accuracy of test sieving depends on the dimensional accuracy of the test sieve openings, the consistency of size within very close tolerances that can be achieved for the openings of electroformed sheet makes them attractive for test sieving of very fine particulate material.

Test sieves of electroformed sheet must be handled with particular care as the very fine apertures are invisible to the unaided eye. Notes on cleaning these sieves before and after use are given in annex A.

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1 Scope

This part of ISO 3310 specifies the technical requirements and corresponding test methods for test sieves in which the sieving medium is a metal sheet with electrochemically formed apertures.

It applies to test sieves having round (circular) or square apertures ranging in size from 500 μm to 5 μm , in accordance with ISO 565.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 3310. At the time of publication, the edition indicated was 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 edition of the standard 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*.

3 Designation

Test sieves of electroformed sheet shall be designated by the shape of the apertures (round or square), the nominal size of apertures in micrometres (μm) and the description "electroformed".

4 Electroformed sheet

4.1 General requirements

Electroformed sheet in test sieves shall be free from any irregularities such as production defects, creases, wrinkles or foreign matter in the sheet.

4.2 Arrangement of apertures

Round apertures shall be arranged with their centres at the apices of equilateral triangles (see figure 1); square apertures shall be arranged in line, with their mid-points at the vertices of squares (see figure 2).

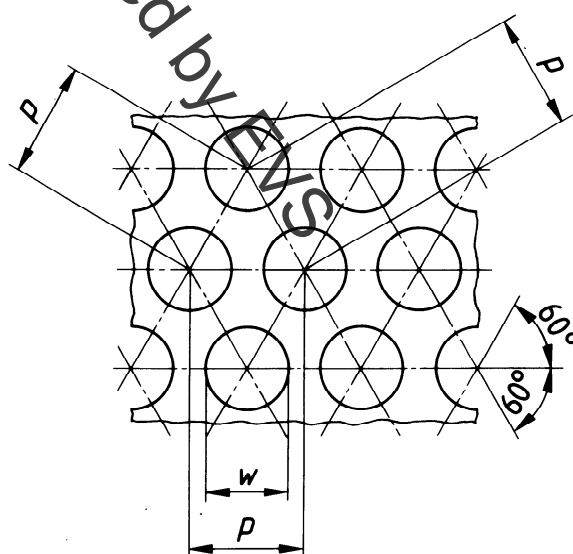


Figure 1 — Arrangement of round apertures