

For BIS use only.

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

(Not to be reproduced without the permission of BIS or used as an Indian Standard)

भारतीय मानक मसौदा

**सामान्य संवातन के लिए एयर फिल्टर
भाग 2 भिन्नात्मक दक्षता और वायु प्रवाह प्रतिरोधिता का मापन**

(IS 17570 (Part 2) : 2021 का *पहला पुनरीक्षण*)
(ISO 16890-2 : 2022 का *अधिग्रहण*)

Draft Indian Standard

**AIR FILTERS FOR GENERAL VENTILATION
PART 2 MEASUREMENT OF FRACTIONAL EFFICIENCY AND AIRFLOW RESISTANCE**

(*First Revision* of IS 17570 (Part 2) : 2021)
(*Adoption* of ISO 16890-2 : 2022)

ICS 91.140.30

Refrigeration and Air Conditioning
Sectional Committee, MED 03

Last date for receipt of
comments is **19 October 2024**

NATIONAL FOREWORD

(Formal clauses will be added later on)

This standard was first published in 2021. The present revision has been taken up to adopt the standard ISO 16890-2 : 2022 ‘Air filters for general ventilation Part 2 : Measurement of fractional efficiency and air flow resistance’.

Under the general title ‘Air filters for general ventilation’, the standard is in four parts, other parts are as following:

(Part 1) Technical specifications, requirements and classification system based upon particulate matter efficiency (ePM)

Doc: MED 03(26440)WC
IS 17570 (Part 2) : XXXX/ISO 16890-2:2022
September 2024

(Part 3) Determination of the Gravimetric Efficiency and the Air Flow Resistance Versus the Mass of Test Dust Captured

(Part 4) Conditioning Method to Determine the Minimum Fractional Test Efficiency

The text of ISO standard has been approved for publication as Indian Standard without deviations. Certain terminology and conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’; and
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as a decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 5167-1 Measurement of fluid flow by means of pressure differential devices inserted in circular cross section conduits running full — Part 1 : General principles and requirements	IS 14615 (Part 1) : 2018/ISO 5167-1 : 2003 Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full — Part 1 : General principles and requirements (<i>first revision</i>)	Identical
ISO 29463-1 High efficiency filters and filter media for removing particles from air — Part 1 : Classification, performance, testing and marking	IS 16753 (Part 1) : 2022/ISO 29463-1 : 2017 High efficiency filters and filter media for removing particles from air — Part 1 : Classification, performance, testing and marking (<i>first revision</i>)	Identical

The technical committee has reviewed the provision of the following International Standard referred in this adopted standard and has decided that it is acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
ISO 21501-1	Determination of particle size distribution — Single particle light interaction methods — Part 1 : Light scattering aerosol spectrometer

In reporting the result of a test or analysis made in accordance with this standard, is to be rounded off, it shall be done in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

NOTE — The technical content of the document has not been enclosed as these are identical with the corresponding ISO standard. For details, please refer the corresponding **ISO 16890-2 : 2022** or kindly contact:

Head

Mechanical Engineering Department

Bureau of Indian Standard

9 Bahadurshah Zafar Marg

New Delhi 110002

Email: med@bis.org.in

Telefax: 011-23232509