***भारतीय मानक***

***Indian Standard***

**IS 17570 (Part 4) : 2024**

**ISO 16890 (Part 4) : 2022**

**सामान्य संवातन के लिए एयर फिल्टर**

**भाग 4 न्यूनतम भिन्नात्मक परीक्षण दक्षता ज्ञात करने के लिए कंडीशनिंग पद्दति**

*( पहला पुनरीक्षण )*

**Air Filters for General Ventilation**

**Part 4 Conditioning Method to Determine the Minimum Fractional Test Efficiency**

*( First Revision )*

ICS 91.140.30

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भारतीय मानक ब्यूरो

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Refrigeration and Air Conditioning Sectional Committee, MED 03

NATIONAL FOREWORD

This Indian Standard which is identical to ISO 16890 (Part 4) : 2022 ‘Air Filters for General Ventilation: Part 4 Conditioning Method to Determine the Minimum Fractional Test Efficiency’, issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on recommendation of the Refrigeration and Air Conditioning Sectional Committee and approval of the Mechanical Engineering Division Council.

This standard was first published in 2021. The first revision of the standard has been brought out to adopt ISO 16890 (Part 4) : 2022 ‘Air Filters for General Ventilation: Part 4 Conditioning Method to Determine the Minimum Fractional Test Efficiency’.

This standard is one of the series of Indian Standards on air filters for general ventilation. The other parts in this series under the general title are as follows:

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

Part 2 Measurement of fractional efficiency and air flow resistance (ISO 16890-2 : 2016, MOD)

Part 3 Determination of the gravimetric efficiency and the air flow resistance versus the mass of test dust captured

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

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

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

|  |  |  |
| --- | --- | --- |
| *International Standard* | *Corresponding Indian Standard* | *Degree of Equivalence* |
| ISO 16890-2, Air filters for general ventilation — Part 2: Measurement of fractional efficiency and air flow resistance  | IS 17570 (Part 2) : 2021 Air Filters for General Ventilation Part 2 Measurement of Fractional Efficiency and Air Flow Resistance (ISO 16890-2 : 2016, MOD)  | Modified  |

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 the same as that of the specified value in this standard.

*Indian Standard*

AIR FILTERS FOR GENERAL VENTILATION

**PART 4 CONDITIONING METHOD TO DETERMINE THE MINIMUM FRACTIONAL TEST EFFICIENCY**

 *( First Revision )*