

ISBN 978-0-626-29282-9

SANS 1424:2013

Edition 1.2

SOUTH AFRICAN NATIONAL STANDARD

Filters for use in air-conditioning and general ventilation

Published by SABS Standards Division
1 Dr Lategan Road Groenkloof ☒ Private Bag X191 Pretoria 0001
Tel: +27 12 428 7911 Fax: +27 12 344 1568
www.sabs.co.za
© SABS

SABS



SANS 1424:2013
Edition 1.2

Table of changes

Change No.	Date	Scope
Amdt 1	2008	Amended to change the designation of SABS standards to SANS standards, to update the definition of "acceptable", to change a requirement for data sheets, to update referenced standards, and to remove reference to the standardization mark scheme.
Amdt 2	2013	Amended to update a referenced standard.

Foreword

This South African standard was approved by National Committee SABS/TC 86, *Refrigeration and air-conditioning*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in November 2013.

This document supersedes SANS 1424:2008 (edition 1.1).

A vertical line in the margin shows where the text has been technically modified by amendment No. 2.

This document is referenced in the *Compulsory specification for microbiological safety cabinets (classes I, II and III)* (as published by Government Notice R.93 (Government Gazette No. 22014 of 2 February 2001)).

Contents

	Page
Foreword	
1 Scope	3
2 Definitions	3
3 Requirements.....	5
4 Packing, marking, rated values and additional information	6
5 Inspection and methods of test.....	7
Appendix A Applicable standards	8
Appendix B Notes to purchasers	8
Appendix C Interpretation of test results.....	9
Appendix D Quality evaluation of filters produced to the requirements laid down in the specification	12

SANS 1424:2013
Edition 1.2

This page is intentionally left blank

Filters for use in air-conditioning and general ventilation

1 Scope

1.1 This specification covers requirements for disposable pocket and disposable panel filters that are intended for use in air-conditioning and general ventilation systems in order to remove particulate matter from the air, and that have air flow rates of at least $0,236 \text{ m}^3/\text{s}$ ($850 \text{ m}^3/\text{h}$).

1.2 This specification does not cover roll filters nor does it cover flammability requirements.

2 Definitions

2.1 For the purposes of this specification the following definitions shall apply:

acceptable

acceptable to the authority administering this standard, or to the parties concluding the purchase contract, as relevant

Amdt 1

atmospheric dust spot efficiency

E

the ability of a filter to reduce the soiling effects of atmospheric dust contained in the test air, measured on a light transmission basis and expressed as a percentage

average atmospheric dust spot efficiency

average efficiency

E_{ave}

the weighted average of the values of atmospheric dust spot efficiency expressed as a percentage

average synthetic dust mass arrestance

average arrestance

A_{ave}

the weighted average of the values of synthetic dust mass arrestance, expressed as a percentage

batch

filters of the same design and construction, and made from the same consignments of materials

dust holding capacity

DHC

static dust holding capacity

the product of the mass of synthetic dust fed to a filter and its average arrestance, until one of the given limiting conditions occurs, expressed in grams