Test report | Filtration properties

1. Introduction

To prove that filters made from the materials mentioned in chapter 2, hereinafter referred to as the "materials", are suited to be used in dust-extracting machines and applications, Filcoflex B.V. has tested the materials.

The tests have been carried out by the instutut für Arbeitsschutz (IFA), who made a test setup in accordance with DIN EN 60335-2-69:2010; AA 22.201.1. The materials were tested by Christian Sollik and approved by Hans-Ulrich Tobys of IFA and were released in March 2021 with reference number "201222724/6210".

2. Tested materials

For these tests the following materials were used and tested:

- PNV 7506 AS FG

3. General data

3.1 Test specimen

Filter material

3.2 Material type and designation

Filter material, single-layer
Antistatic Needlefelt Media with ePTFE membrane

4. Testing

4.1 Date of testing

March 2012

4.2 Test method and requirements

DIN EN 60335-2-69:2010; AA 22.201.1
IFA principles for testing filters for use in dust-extracting machines and appliances (edition 01/2010).

4.3 Assesment and suitability

The materials meet the requirements of DIN EN 60335-2-69 for filters used in dust-extracting machines and appliances of dust class "M", at a filter surface load of 200 $m^3/m^2 \cdot h$, corresponding to a filter face velocity of 0,056 m/s.

4.4 Special remarks

This test report applies only to the materials with the following upstream (dust-facing) side: the unlabelled, smooth, checkered side.

An assesment of the occupational safety of dust separation equipment fitted with these materials is not possible on the basis of this test report.

5. Test protocol

5.1 Test basis

DIN EN 60335-2-69:2010; AA 22.201.1
IFA principles for testing filters for use in dust-extracting machines and appliances (edition 01/2010).

5.2 Test specimen - Filter material

Type	Filter material, single layer
Designation/Marking	Antistatic Needlefelt Media with ePTFE membrane

5.3 Dust class
"M"

5.4 Suppliers data - Filter material

Material and type	Polyester antistatic needle felt
Basis weight	0,5 kg/m^2
Air permeability	240-480 m^3/m^2·h
Upstream side	Unlabelled, smooth, checkered side
Color	Grey mottled, checkered on one side

5.5 Penetration test - Filter material

Filter surface load	240-480 m^3/m^2·h
Face velocity	0,056 m/s
Requirements dust class "M" Maximum permissible penetration	< 0,10%
Test result Mean penetration	< 0,01% (Based on six measurements)
Test result Standard deviation	< 0,01%

At a filter surface load of 200 m^3/m^2·h, corresponding to a filter face velocity of 0,056 m/s, the penetration is reliable < 0,10%. The requirements for the separation efficiency of filter material of dust class "M" are met.

5.6 Flow resistance
The flow resistance of the filter material is determined before the quartz dust test.

Filter surface load	200 m^3/m^2·h
Face velocity	0,056 m/s
Test result Mean flow resistance	120 Pa (Based on six measurements)

5.7 Air permeability
The air permeability of the filter material is determined at a differential pressure of 200 Pa before the quartz dust test.

5.8 Basis weigh test
0,51 kg/m^2

5.9 Marking
The requirements are met

Name: Werner van Loon
Function: Managing Director
Date: 24/11/2026



Disclaimer

This test report is based on a test certificate supplied to Filcoflex B.V. by IFA. This test report is only to be used as an information sheet. The information contained herein is believed to be accurate as of the date of this document. If any of the above mentioned regulations change after the date of declaration, this information is no longer valid.

The manner in which you use our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products to determine suitability for your processing and intended use. Your analysis must at least include testing to determine suitability from a technical health, safety and environmental and regulatory standpoint.

All information and including technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed by you that you assume and hereby expressively release indemnify us and hold us harmless from all liability, in tort, contract or otherwise, incurred in connection with use of our products, technical assistance and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.