

# SEW166 FR Antistatic

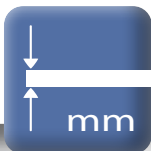
100% Polyester Bi-Co ALU Coated & FR



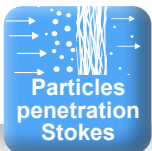
White/Gray  
Weiss/Grau



1,8/2,2  
Decitex



0,72  
mm



0,08  
%



258  
gram



MD 1130N/5cm Length  
CD 550 N/5cm cross

## FILTER MEDIA DATA

SEW 166Alu FR is a 100% Flame retardant Aluminium coated spun bond Bi-Co filters media that is manufactures from continuous fibre who does not permit the particles to become embedded.

SEW 166 Alu FR is very rugged and have a high burststrength that make it resistant to abrasion, water, heat and chemicals.

100 % Spun bond media with a unique shaped bonding that makes pulse cleaning easier and are running with lower pressure drop SEW 166 Alu FR is a washable filter media.



Dry  
Trocken

120 Celsius

Wet  
Feuchte

90 Celsius

Air Permeability | 200Pa  
Luftdurchlässigkeit | 200Pa

675,48 m3/m2/hr

## Chemical Resistance | Chemische Eigenschaften

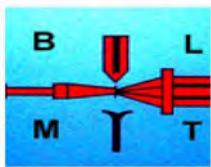
	Excellent Sehr Gut	Good Gut	Fair Mässig
Oil/water resistance Öl und Wasserabweisend	X	X	X
Hydrolysis resistance Hydrolysebeständigkeit	X	X	X
Acid resistance Säurebeständigkeit	X	X	X
Alkaline resistance Alkalienbeständigkeit	X	X	X



Certificate No.  
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20062876

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S.E.W. North Filtration A/S \* Vesterbrogade 1, Section C \* DK-4930 Maribo  
E-mail: sales@northfiltration.com \* www.northfiltration.com \* VAT no.: DK 33 49 28 71



# test report

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## Type Test according DIN EN 60335-2-69:2015 BLANKENBERG - MEßTECHNIK / DATENVERARBEITUNG

Oderstr. 2 , D-47506 NEUKIRCHEN-VLUYN , Tel.: +49 02845 58303 , Fax : +49 02845 58461 , E-Mail : Labor@Blankenberg-mt.org

**customer :** S.E.W. North Filtration A/S Date : 07.09.2019  
Vesterbrogade 1, Sektion C Date of order : 30.08.2019  
**4930 - Maribo** Entering of the sample 03.09.2019

**Order :** Type testing of a filter material on a test rig according to the DIN EN 60335-2-69:2015 with a air permeability of 200 m<sup>3</sup>/(m<sup>2</sup>\*h) or a face velocity of 0,056 m/ s. |

**Remarks on the order :** The test result is based explicitly only on the DIN EN 60335-2-69:2015 Annex AA.22.201.1. Another statements on the specimen are not part of this order. |

**Kind of sampling :** 15 samples of the filter material with dimensions of approx 450 mm x 450 mm sent with date of the 09/03/2019 to the testlaboratory. |

**Test Device :** SEW166 ALU-FR / Polyester Spinnvlies antistatisch und flammhemmend

**Test results :** **Dust class \*\*): M ( D: < 0,0767 % )**

Test air flow rate 200 m<sup>3</sup>/(m<sup>2</sup>\*h) / 0,056 m/s

initial pressure drop : 56 Pa max. final pressure drop : 243 Pa  
for test dust ( Quarzstaub ) for Test aerosol ( )

initial arrestance : > 99,9233 % initial arrestance \*\*): ---

Average dust weight : --- initial fraction arrestance \*\*): ---

Air permeability : 200 Pa of 675,48 m<sup>3</sup>/(m<sup>2</sup>\*h) inatial specific test arrestance \*) : ---

### Details of the test :

Under test conditions, the test object met the requirements of Dust class M. When testing 6 material samples, at standard deviation of 0.00248 mean transmittance of 0.0767 % (maximum value = 0.0792%, minimum value = 0.0689%) determined. If the air permeability is increased up to 618 m<sup>3</sup> / (m<sup>2</sup> \* h), the dust class M is retained. |

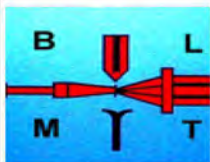
### These test report 3 Page 1 enclosure

and can only be used in combination with the test device and are only valid for identical types. The test report can only be made public or copied in its original form and content, with the agreement of the testing organisation. A part of the test report may only made public with the testing agreement of the testing office.

Supervisor

\*\*\*): The test-results are based on an itegrated and continuous neutralization as well as freight-control of the test dust, aerosol or test device.

\*) : Test Results according to ASHRAE 52 76 or BS 3928 / 4400 ( Sodium - Flame - Test )



# Test object

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## Type Test according DIN EN 60335-2-69:2015 BLANKENBERG - MEßTECHNIK / DATENVERARBEITUNG

Oderstr. 2 , D-47506 NEUKIRCHEN-VLUYN , Tel.: +49 02845 58303 , Fax : +49 02845 58461 , E-Mail : Labor@Blankenberg-mt.org

### manufacturer or or customer :

S.E.W. North Filtration A/S  
Vesterbrogade 1, Sektion C  
**4930 - Maribo**

### Device description according to manufacturer or costumer

Device name :	SEW166 ALU-FR	Design model Nr. :	Polyester Spinnvlies antistatisch und flammhemmend syntetic
Configuration :	-	Device filter media :	
effective filter area :	100 cm <sup>2</sup>	face dimension :	450 mm x 450 mm
Weight :	257,78 g/m <sup>2</sup>	thickness :	0,72 mm

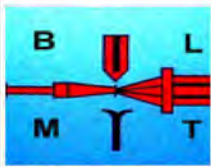
### Proposers recommended operating data

Nominal air flow rate :	200 m <sup>3</sup> /(m <sup>2</sup> *h)		
Temperature resistance :	-----	Burst pressure :	-----
initial pressure drop :	55 Pa	final pressure drop :	-----

### Device description

The one-ply raw white polyester spunbonded fabric is antistatic and flame retardant. The gray and aluminum-coated upstream side of the material is marked with a label.]





# initial pressure drop

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Type Test according DIN EN 60335-2-69:2015

**BLANKENBERG - MEßTECHNIK / DATENVERARBEITUNG**

Oderstr. 2 , D-47506 NEUKIRCHEN-VLUYN , Tel.: +49 02845 58303 , Fax : +49 02845 58461 , E-Mail : Labor@Blankenberg-mt.org

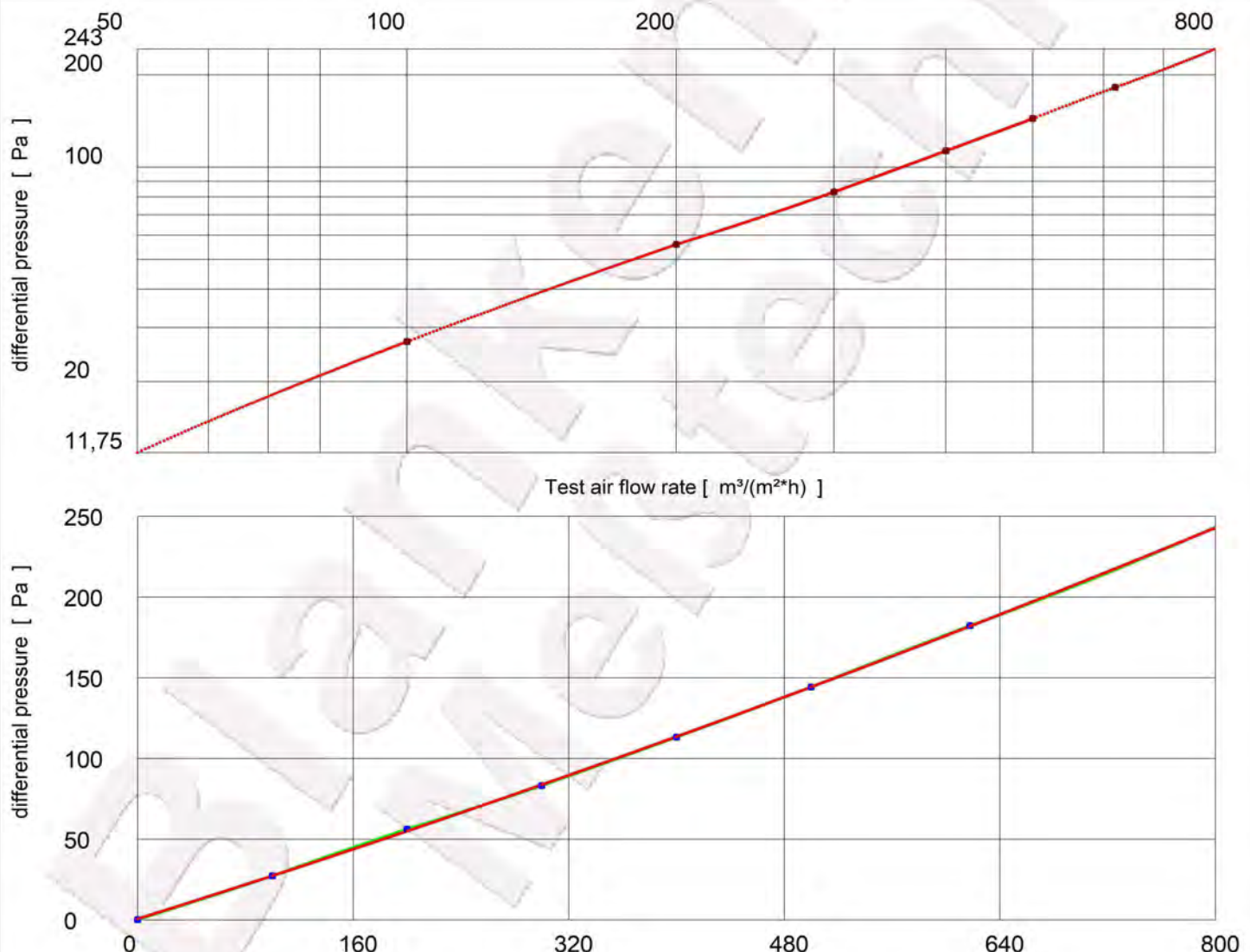
## Test data

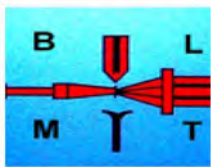
Test air flow rate or velocity :	200 m <sup>3</sup> /(m <sup>2</sup> *h)	atmospheric pressure	1007,00 - 1008,00 mbar
Temperature of test air	21,00 °C	Rel. humidity	50,20 %

## Pressure drop in dependence on Air flow rate

(clean device)

No.:	1	2	3	4	5	6	7	8	9
% of Fluid or velocity	0,00	50,00	100,00	150,00	200,00	250,00	309,00	337,74	400,00
atmospheric pressure [ mbar ] :	1007,00	1007,00	1007,00	1007,00	1007,00	1008,00	1008,00	1008,00	1008,00
Temperature of test air [ °C ] :	21,00	21,00	21,00	21,00	21,00	21,00	21,00	21,00	21,00
Rel. humidity [ % ] :	50,20	50,20	50,20	50,20	50,20	50,20	50,20	50,20	50,20
Test air flow rate [ m <sup>3</sup> /(m <sup>2</sup> *h) ] :	0,00	100,00	200,00	300,00	400,00	500,00	618,00	675,48	800,00
differential pressure [ Pa ] :	0	27	56	83	113	144	182	200	243





The test results are based on one single and/or small series test and are valid only for Identical types. For an evaluation, one must consider that the measuring tolerances of the testing method are always within the tolerances accepted for this testing method, also under consideration of the material and fabrication tolerances according during fabrication.

## **Evaluation of the test results**

The test results, shown in the certificate, are only related to the operating data and the test procedures, which are required by the manufacturer. They consider the following criteria.

### **1.1. The pressure loss resp. Initial - or final pressure loss**

### **1.2. The arrestance grade (depending on the test procedure, different norminations are usual)**

- initial- and average dust spot efficiency,
- initial- and average dust weight arrestance,
- transmission factor,
- fraction arrestance

### **1.3. Dust holding capacity**

Due to a dust feeding, there will be a change of the pressure loss and the arrestance grade of the air filter.

### **1.4. Air filter - classification**

The classification of the air filter refers exclusively of the criteria based on each test norm. ( e.g. arrestance or classification - pressure loss ).

## **2. Comparlson of the test results**

Valuation and comparison of filter - test results assume that only those filters can be compared whose results are at least tested under the same conditions like ( e.g. up to a comparable pressure loss or at the same air flow rate )

In case the conditions are not identical or the test results are based on different test methods, these data are limited or not compatible.

Indications regarding the dust holding capacity are only valid on basis of the test conditions. Inside the validity of a test report, there can be completely different conditions, depending on the test laboratory's and / or manufacturer's requirements. Are there no single - test certificats for the mentioned comparison - final pressure difference avoi et lable, one can calculate them, under the condition of a sufficient accuracy from the test certificates and / or graphically from the curves.