



PURA TEX

# Filter Product for Dust Collectors



S E F A R



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## Introduction

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### Sefar PURA-TEX Product range - Capabilities

Sefar provides ready-to-install Dust Collector Bags in a variety of different sizes, lengths and shapes. Dust Collector Bags are available in various top and bottom versions, with welded and stitched seams.

The range includes:

- Dust collector bags
- Dust filter pockets
- Pleated filter elements
- Dust sleeves
- Dust socks
- Accessories

Dust collector bags are suitable for all common cleaning systems regardless whether they are:

- Pulse jet bags
- Reverse-air bags
- Shaker filter bags
- Static filter bags
- Custom filter bags
- Other systems

### Additional products

In addition to our range of dust collector bags we also offer

- Ceramic elements
- Pleated elements
- Pleated cartridges
- Airslide fabrics



### Partnership Sefar & BWF-Envirotec

Sefar Filtration proudly represents BWF Envirotec, worldwide leaders in the production of needlefelt filter media for industrial dust removal applications.

Dust collector bags are specially made from a comprehensive range of needlefelts, all manufactured with multi layered fibre construction on a supporting monofilament or multi filament scrim.

This ensures all fabrics are extremely compact, stable and most importantly, mechanically robust.

By matching fibre/scrim to meet the thermal, physical and chemical requirements of industry, Sefar Filtration are able to offer Dust Collector Bags which are exactly tailored to the technical requirements of particular Dust Collection applications.

The following are registered trademarks of BWF Envirotec: PM-Tec®, Food-Tec®, ExCharge®, Needlona®, MPS®, Pyrotec®

# Dust collector bags - Choice of the Optimal Filter Media

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Picture supplied by BWF Envirotec

## Filter Media

Textile filter media have consistently gained importance in industrial dust removal. Reasons are stricter legislation, the demand for lower emission rates, and last but not least, the moral and social obligation to protect the environment.

Based on the know-how developed over decades, BWF Envirotec develops, produces and sells filter media for industrial flue gas cleaning, separation of solids from liquids and product recovery.

The delivery programme comprises a wide range of filter materials and ready-to-install filter media made of almost all types of synthetic fibres and scrims currently available on the market.

The expertise of our R&D department combined with the experience of our engineering service, is the basis for selecting the best possible filter medium. At BWF Envirotec, the primary objective is to offer solutions from an economical and process engineering point of view.

## Scrims

Textile filter media are made of a fibre layer and a supporting scrim.

The supporting scrim provides high mechanical strength to the needle felts and plays an important role in the control of emissions.

Due to the multi-layer fibre construction and the supporting scrim, needlona® needle felts are extremely compact, stable and mechanically robust.

## BWF needlona® felt

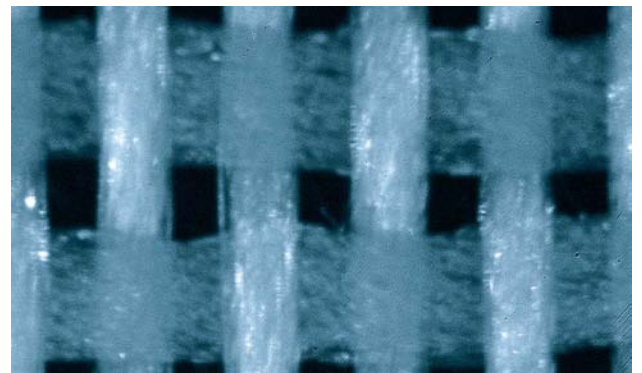
- Longer service life
- Lower emission levels
- Lower operating costs
- Fewer bag changes
- = Cost savings

## Selection Criteria

The Selection criteria:

1. Gas and Temperature
2. Dust Separation Procedure
3. Dust

All other criteria for the choice of the optimal filter medium must meet or exceed minimum emission control standards and service life.



Picture supplied by BWF Envirotec



# Selection Criteria

## 1. Selection Criteria Gas and Temperature

The chemical and physical properties of the fibres have an essential influence on the efficiency and service-life of the filter medium. Chemical, thermal and physical effects can impact the different kinds of fibres in many and various ways.

Knowing the fibre characteristics, we are able to provide optimal solutions with regard to efficiency and process conditions. The table below will be of assistance for fibre selection.

### For your information:

When operating a filter plant, the temperature must always be above the dew point. If the temperature drops below this limit, the water will condense and form droplets on the filter medium. Besides this, with existing corrosive gases, the development of aggressive acids is possible. Moreover, cleaning effectiveness will be reduced by the formation of a wet, sticky dust layer. As a direct consequence pressure drop problems may occur. If acids form, chemical degradation of the filter medium, supporting cage and dust collector will take place.



Picture supplied by BWF Envirotec

## Resistance of synthetic fibres to the influence of chemicals and to temperatures

Scrim & Fibre Types	Continuous operating temp °C	Max. *operating temp. °C	BWF Type	Resistance to Hydrolysis	Resistance to Acids	Resistance to Alkalis **	Resistance to Oxidation
Polypropylene	90	95	PP	Excellent	Excellent	Excellent	Restricted
Polyamide	110	115	PA	Restricted	Restricted	Good	Restricted
Polyester	150	150	PE	Restricted	Good	Restricted	Good
Polyphenylene sulfide	190	200	PPS	Excellent	Excellent	Excellent	Restricted
M-Aramide	200	220	NO, NX	Restricted	Restricted	Restricted	Good
Polytetrafluorethylene	250	280	PTFE, TFL	Excellent	Excellent	Excellent	Excellent

\* Chemical gas stream conditions may require a lower continuous operating temperature to be maintained

\*\* Especially in case of operation below the dew point and harmful impact of aerosols

# Selection Criteria

## 2. Selection Criteria Dust Separation Procedure

Different dust separation procedures require different weights and air permeability values for filter media.

The Rule:  
The more effective the cleaning process, the more compact and heavier the filter medium can be.

Dust Separation Procedure	Weight g/m <sup>2</sup>	Air permeability l / dm <sup>2</sup> min @ 200 Pa
Intermittant shaking	300 - 350	400 - 600
Shaking- and Reverse Air	350 - 450	250 - 400
Low Pressure cleaning	400 - 500	150 - 350
Jet Pulse	500 - 650	50 - 150

## 3. Selection Criteria: Dust

Besides the necessary knowledge about the dust source and the process conditions, the following criteria are of decisive importance for recommending the appropriate surface of the filter media:

1. Dust Concentration  
(Dust proportion in raw gas)
2. Dust Composition  
(Particle size, chemical composition of the dust)
3. Dust Characteristics
  - Electrostatic properties
  - tendency to agglomerate
  - hygroscopic properties
  - settling rate
  - abrasiveness
  - bulk density

### Typical dust properties with the appropriate surface finishes

Codes	Code 1	Code 4 Glaze	CS17	CS30/31	MPS	EPI as Exchange	PM-Tec	Food-Tec
Dust Properties	Singed face side	Calendered face side	Full bath oil and water repellent finish	Full bath PTFE treatment	Micro pores by fine fibres	Permanent conductive matrix resistance	With ePTFE membrane	FDA compliant
Free flowing	●							
Agglomerating		●						
Extremely fine					●		●	
Abrasive	●							
Humid			●					
Sticky		●	●	●				
Electrostatic chargeability						●		
In contact with Food material								●

# ExCharge®

## Antistatic Filter Material

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### Features

- Explosion protection through permanent dissipation of the electrostatic charge
- Permanent electrostatic properties due to high-quality stainless steel fibres in the supporting scrim

### Applications

- In areas subject to explosion hazards
- Filter dust with high electrostatic charge

ExCharge® is an antistatic needle felt with a resistance value of well below  $10^6 \Omega$ , measured as per DIN 54345 (part 1 and part 5). High quality stainless steel fibres in the supporting scrim provide the necessary discharge.

ExCharge® is certified by DEKRA EXAM GmbH. In accordance to the guidelines of the (German) employer's liability insurance association for the prevention of ignition risks due to electrostatic charge, with ExCharge®, ignition risks are not to be expected even in critical areas. Based on national and European regulations,

ExCharge® fulfils requirements in respect of electrostatic discharge when earthed. This characteristic can be taken into account when assessing the hazards of machinery which is subject to guideline 94/9/EG ("ATEX-Guideline") and in which ExCharge® is to be installed.



Picture supplied by BWF Envirotec



# ATEX

94/9/CE

# FoodTec®

## Filter Media for the Food Industry

### Features

- Food safe
- Certified by a declaration of conformity according to regulation EU No. 10/2011
- Compliant with FDA 21 CFR §176 & 177
- Manufactured according to GMP EU 2023/2006

In the food industry food grade components involved in the production process are mandatory and regulated for product contact. The uncompromising high quality of the BWF FoodTec® filter media backed with the BWF ISO 9001 certificate and the Good Manufacturing Practice GMP EU 2023/2006 allows BWF Envirotec to offer both an EU declaration of conformity and FDA compliance.

The BWF FoodTec® product line was especially developed for applications in the food industry and is tested by an external and independent institute. Best test results which are well below the legally prescribed limits, confirm the excellent properties and the food safety of our FoodTec® Product line.

### Declaration of Conformity according to EU Directive 10/2011 (EU)

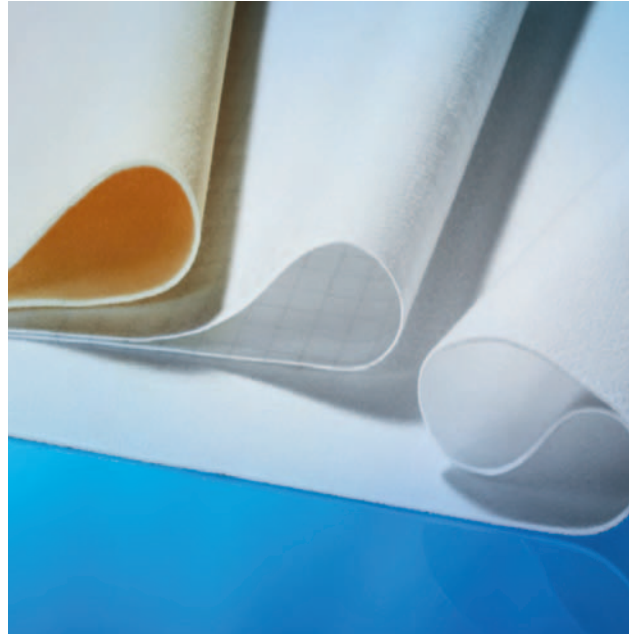
According to EU Directive No. 10/2011 all FoodTec® filter media employed in the food industry are supplied with a declaration of conformity. Test results confirm FoodTec® for use in the food industry:

- global migration: even at temperatures of 70°C, FoodTec® consistently falls below the statutorily stipulated limit values
- Specific migration: the specific migration values complies with the specification of the German Commodities Ordinance and Directive 2002/72/EG.


### FDA Compliance

We can guarantee to fulfil the high demands of the food industry:

- FoodTec® Filter Media including all of its constituent components meets US Food and Drug Administration food contact and use regulatory requirements.
- FoodTec® is in material compliance with the compositional and manufacturing requirements of §§ 402(a)(1) and 403 of the United States Federal Food, Drug and Cosmetic act.



Picture supplied by BWF Envirotec




Offingen, 22. November 2012

**Product Information**


**FDA Compliance**

BWF Envirotec develops and manufactures textile filter media with and without an ePTFE membrane as surface finish.

We hereby certify that our FoodTec® needle felt, including all of its constituent components, meets United States Food and Drug Administration food contact and use regulatory requirements (Code 21 C.F.R.) and is in material compliance with the compositional and manufacturing requirements of §§ 402(a)(1) and 403 of the United States Federal Food, Drug and Cosmetic Act.




Dr. Martin Dunkel  
Managing Director  
BWF Envirotec



Rainer Kopp  
Quality Manager  
BWF Envirotec

At our German site, we are certified under the ISO 9001 quality management system, the ISO 14001 environmental management system and the BS OHSAS 18001 occupational health and safety management system. At our Chinese site, we are certified under the ISO 9001 quality management system.

 <p>Kommunikationsfachkraft, Sitz Offingen, Amtsgericht Memmingen, HRB 1929 Paritätischer Sachverständigenrat, BWF Tec, Geschäftsbereich Offingen Sitz Offingen, Amtsgericht Memmingen, HRB 193 Geschäftsbereich, Sitz Offingen, Steuer Offenhart, Dr.-Ing. Wolfgang Schmal</p>	<p>BWF Tec GmbH &amp; Co. KG Bühlstraße 25 89062 Offingen Deutschland</p>	<p>Telefon +49 8224 71-0 Telefax +49 8224 71-2144 info@bwf-envirotec.de www.bwf-envirotec.de</p>
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USt-IdNr.: DE 125454769



## PM-Tec®

### Fine Dust Filter Media with an e-PTFE Membrane

#### Features

- Separation of very fine dust particles already on the surface
- No penetration of the dust into the substrate
- Excellent cleaning properties through a smooth, anti-adhesive surface
- Minimal emission level, with the possibility to achieve almost zero emission levels
- Consistent differential pressure behaviour
- Consistent gas volumetric flow
- Long service life and high productivity

#### Description

The new PM-Tec® product line represents the highest demands on a filter medium for industrial filtration. BWF Envirotec combines in the new product line first-rate carrier media consisting of needlona® needle felt or fibreglass fabric with a high-efficiency ePTFE membrane and decades of experience in filter media production.

The continuous in-house process chain, starting with the manufacture of the needlona® filter media, including the laminating process, to finishing of complete filter bags guarantees the high quality standard of PM-Tec®.

The membrane, produced from polytetrafluorethylene possesses characteristics which are optimally suited for use in industrial fine dust applications. Minute pores, due to a microporous structure and a low surface tension which reduces the adhesion of fine dusts and a temperature resistance of up to 288° C ensure optimum filtration properties.

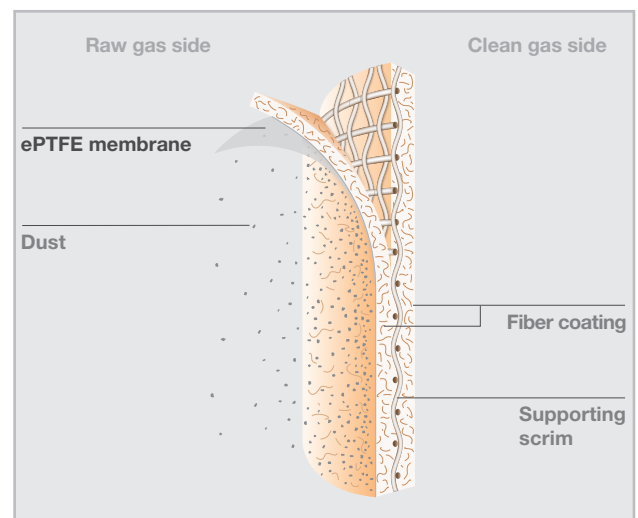
#### Applications

PM-Tec® applications are in all industrial de dusting plants where very fine dust occurs in the production of the manufacturing process. For example

- Cement industry
- Waste utilisation plants
- Chemical and Pharmaceutical industry
- Metal processing industry
- Plastics processing industry



Pictures supplied by BWF Envirotec





## MPS®

### Filter Media for Ultrafine Dust Particle Separation

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#### Features

- Highest separation efficiency by a surface-oriented filtration
- Lowest emission rates
- Extended operational life due to reduced cleaning intervals
- Low operating costs through reduced compressed air consumption and energy

#### Description

Within the scope of the MPS®-Programme (Micro-Pore-Size), all standard articles described are also available for ultrafine dust particle separation ( $< 5\mu$ ).

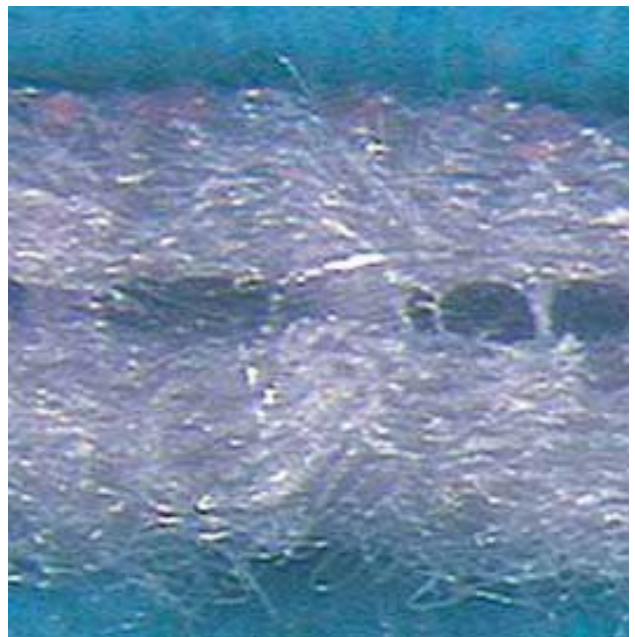
The use of very fine fibres makes MPS®- filter media an effective active surface area separator.

The microporous character of MPS®-needle felt ensures that even at the surface of the filter media an extensive dust separation occurs.

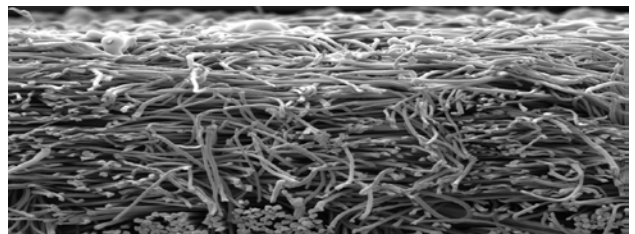
Fine dust in the air is extremely hazardous to health. Especially in industrial areas, it can cause enormous strain on the environment. needlona® filter media from BWF Envirotec also ensure here that the air is clean.

For the filtering of especially fine dusts, which arise, for example, in coal-fired power plants, bio mass power stations and in the non-ferrous and metal production, we have developed our MPS® filter media.

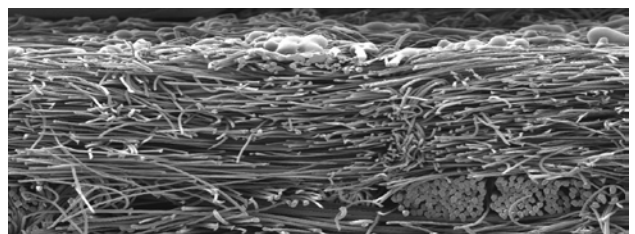
The micro fibres of our MPS® filter media significantly increase the filter surface of the needle felt. As a result, the largest possible fibre surface with the smallest pores is created. This surface is very difficult, even for extremely fine dusts, to penetrate.



Pictures supplied by BWF Envirotec



Scanning electron microscopy image: standard-needle felt



Scanning electron microscopy image: MPS®-needle felt

# Pharma GMP Bags

## The certified filter bag solution

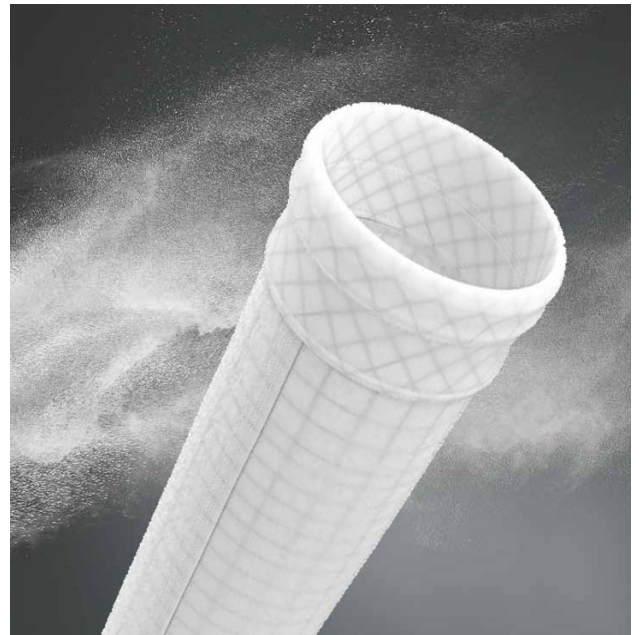
### Features

- A true FDA compliant filter bag
- Certified to the most stringent standards
- FDA compliant, single bag packaging
- Customised labelling
- Full traceability
- Test report

Sefar responded to the stringent requirement of the pharmaceutical industry by creating the highest quality standard available worldwide.

Developed in partnership with world's top pharmaceutical manufacturers, Sefar Pharma GMP bags represent the highest level of security available on the market today.

This security is built into every Sefar life science product.



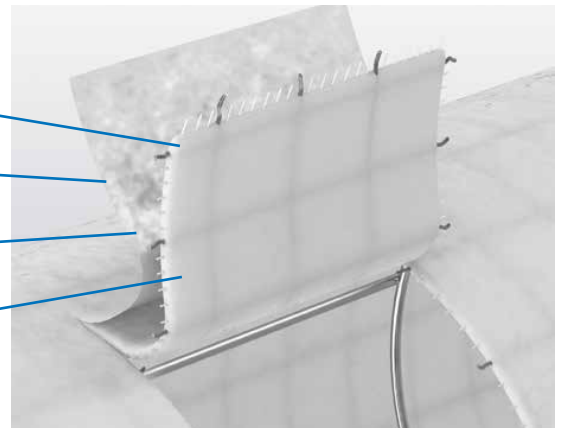
### Design features

**High conductivity stainless steel matrix**  
to provide excellent protection against explosion

**ePTFE membrane**  
to avoid contamination and provide high filtration efficiency

**Polyester or PTFE scrim**  
for high mechanical resistance and stability

**EC-FDA compliant**  
polyester or PTFE needle felt



### Available materials - Specifications

Product Code	Material	Felt Weight g	PTFE Membrane	Antistatic
07-550-50 NFMA PHARMA	Polyester	550	●	●
07-550-50 NFM PHARMA	Polyester	550	●	
24-750-50 NFM PHARMA	PTFE	750	●	

### Meets & exceeds standards:

Code	
EC 1935/2004	●
EC 10/2011	●
GMP EC 2026/2006 or cGMP	●
FDA CFR 177	●
ISO 9001	●
ATEC (EC 94/9)	●
Single packaging	●
Customized labelling	●
Traceability	●
Test report	●

## CS17® - CS30/31® Finishes

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### CS17®

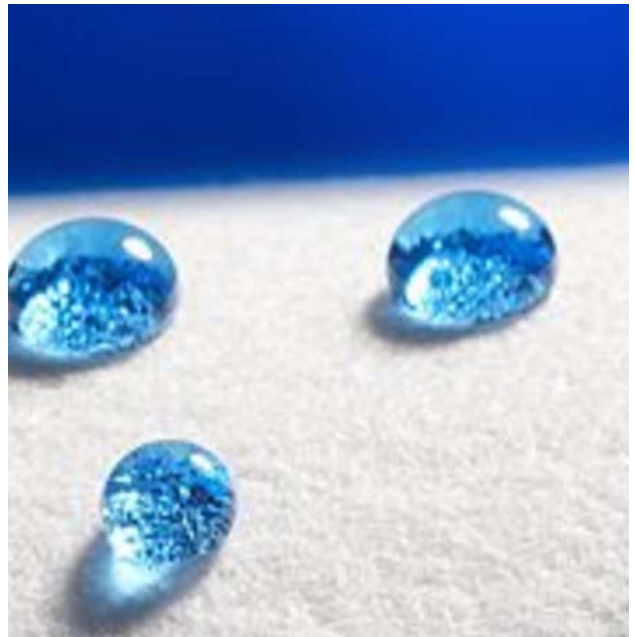
- Oil and Water repellent
- Improved cleanability
- Higher safety with non-continuous processes

#### Applications

CS17® – an oil and water repellent finish for improving dust separation of wet, oily, fatty and sticky dust.

Even for non-continuous processes, where the temperature may drop near to the dew point, the CS17® finish prevents the uptake of moisture by the needle felt, thus reducing the danger of excessive dust deposits and caking.

CS17® is available for all needle felt types and in a FDA approved version.



Pictures supplied by BWF Envirotec

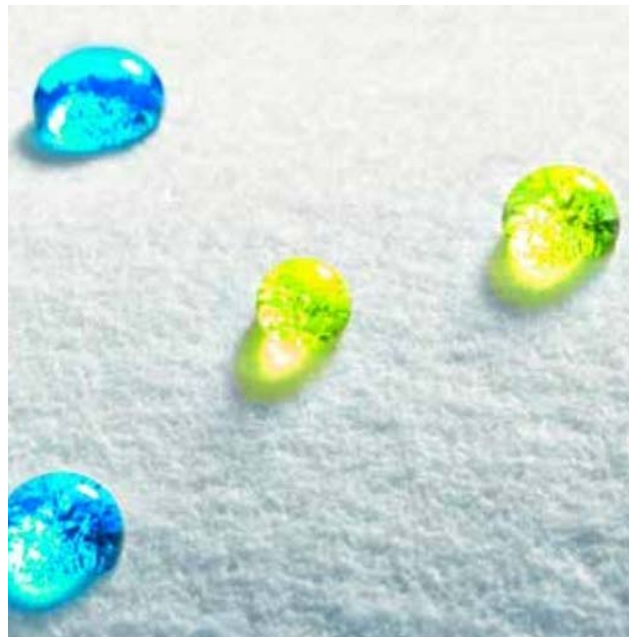
### CS30/31®

- Increase in the active filter surface area
- Higher filtration efficiency
- Lowest emission rates
- CS31: oil and water repellent

#### Applications

CS30, the **PTFE** finish which is used in particular for separating fine dusts. Filter media which are treated with this finish provide a significantly increased active filter surface area, thus offering lowest emission and pressure loss values.

CS31 is a combination of the above mentioned CS30 treatment with the CS17® treatment, which additionally provides an oil and water repellent effect and enhances cleanability.





# Ready Made Dust Collector Bags

## Local manufacturing

### Overview

Sefar produces dust filter bags and tubing made from high-quality felts. Depending on the application they can be made with snap rings or felt collars, metal bands or with draw strings.

Bags are made to order and to your own specifications. Our vast range of available felts in various weights and with various surface treatments combined with our local state of the art manufacturing facilities allow us to offer you the best solution for your individual application.

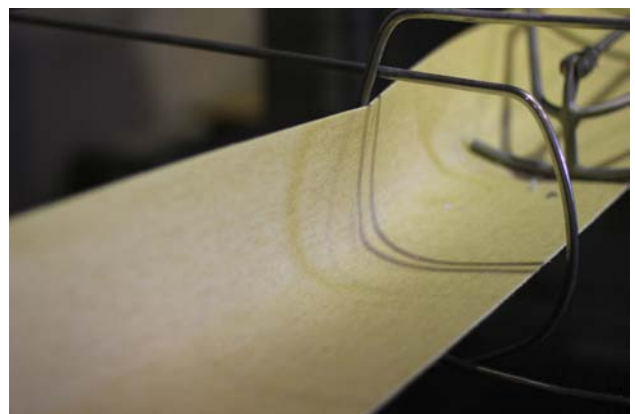


### Sefar Local Manufacturing

- Custom made designs
- Application specific modifications
- Fast turnaround times
- Consistent quality
- Quality Certification ISO 9001:2008
- State of the art Manufacturing facilities in Sydney NSW and Auckland NZ



Our local manufacturing facilities allow us to adapt existing designs to provide you with a tailor-made solution as well as custom made designs to suit many other applications.



### Standard Type ready made dust filter bags

To cover the vast majority of applications we locally produce and stock standard type dust filter bags to suit the most common requirements. The range includes:

- Dust filter bag open one end and base opposite end
- DCE Vokes - Dalamatic Type bags
- DCE Vokes - Unimaster Type bags
- Luhr Filter bags dia. 110mm
- HVAC Type dust bags dia. 160mm (base one end and snap cuff to suit cell plate dia. 167 mm)
- Snap Cuff bags dia. 127mm (base one end and snap cuff to suit cell plate dia. 135mm)
- Snap Cuff bags dia. 152mm (base one end and snap cuff to suit cell plate dia. 162mm)





## Dust Filter bags - Mikropul Type

Dia. 114-120mm, open one end, base opposite end

### Type

- Dia. 114 - 120mm
- Open one end
- Base opposite end



### Dust Filter Bags - open one end, base opposite end

Dia. mm	Length mm	Product Code	Description	Felt Weight g	Fibre Type	Quality	Surface finish	
114 - 120	1320	NFW-PEPE554	Polyester	550	PE			
	1930	NFW-PEPE554EXCHARGE	Exchange	550	PE			
	2540	NFW-PEPE551EPI	Epitropic	550	PE			
	3150	NFW-PEPE554 CS17	Oleophobic	550	PE		CS 17	
	3760	NFW-PEPE551EXCHCS17	Oleophobic, Antistatic	550	PE	Exchange	CS 17	
	4980		NFW-PEPE554MPSCS17	Oleophobic, Microporous	550	PE	MPS	CS 17
			NFW-PEPE651	Polyester	650	PE		
			NF-PEPE550PMTEC	PTFE Membrane	550	PE	PM-Tec	
			NFW-PPPP554	Polypropylene	550	PP		
			NFW-DTDT551	Homopolymer Acrylic	550	DT		
			NFW-NONO504	Aramide	500	NO		
			NFW-PPS/PPS551	Ryton	550	PPS		

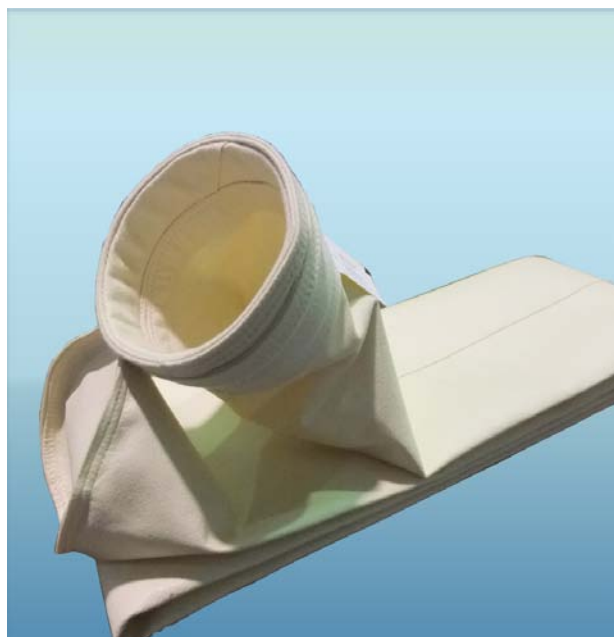
Other combinations of material qualities, weights, fibre types, and surface finishes available upon request.

## Dust Filter bags - Snap Cuff

Dia. 127mm

### Type

- Dia. 127mm
- Base one end
- Snap cuff to suit cell plate dia. 135mm other end
- 5050 & 6060mm length bags with boot



### Dust Filter Bags - Snap cuff - Dia. 127mm

Dia. mm	Length mm	Product Code	Description	Felt Weight g	Fibre Type	Quality	Surface finish
127	2000	NFW-PEPE554	Polyester	550	PE		
	3000	NFW-PEPE554EXCHARGE	Exchange	550	PE		
	3660	NFW-PEPE551EPI	Epitropic	550	PE		
	5050	NFW-PEPE554 CS17	Oleophobic	550	PE		CS 17
	6060	NFW-PEPE551EXCHCS17	Oleophobic, Antistatic	550	PE	Exchange	CS 17
		NFW-PEPE554MPSCS17	Oleophobic, Microporous	550	PE	MPS	CS 17
		NFW-PEPE651	Polyester	650	PE		
		NF-PEPE550PMTEC	PTFE Membrane	550	PE	PM-Tec	
		NFW-PPPP554	Polypropylene	550	PP		
		NFW-DTDT551	Homopolymer Acrylic	550	DT		
		NFW-NONO504	Aramide	500	NO		
	NFW-PPS/PPS551	Ryton	550	PPS			

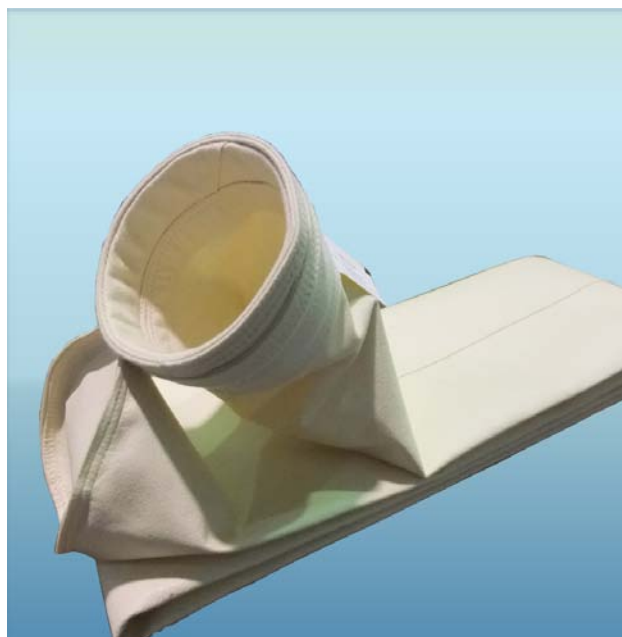
Other combinations of material qualities, weights, fibre types, and surface finishes available upon request.

## Dust Filter bags - Snap Cuff

Dia. 152mm

### Type

- Dia. 152mm
- Base one end
- Snap cuff to suit cell plate dia. 162mm other end



### Dust Filter Bags - Snap cuff - Dia. 152mm

Dia. mm	Length mm	Product Code	Description	Felt Weight g	Fibre Type	Quality	Surface finish
152	1500	NFW-PEPE554	Polyester	550	PE		
	2000	NFW-PEPE554EXCHARGE	Exchange	550	PE		
	3000	NFW-PEPE551EPI	Epitropic	550	PE		
	3660	NFW-PEPE554 CS17	Oleophobic	550	PE		CS 17
	4880	NFW-PEPE551EXCHCS17	Oleophobic, Antistatic	550	PE	Exchange	CS 17
		NFW-PEPE554MPSCS17	Oleophobic, Microporous	550	PE	MPS	CS 17
		NFW-PEPE651	Polyester	650	PE		
		NF-PEPE550PMTEC	PTFE Membrane	550	PE	PM-Tec	
		NFW-PPPP554	Polypropylene	550	PP		
		NFW-DTDT551	Homopolymer Acrylic	550	DT		
		NFW-NONO504	Aramide	500	NO		
		NFW-PPS/PPS551	Ryton	550	PPS		

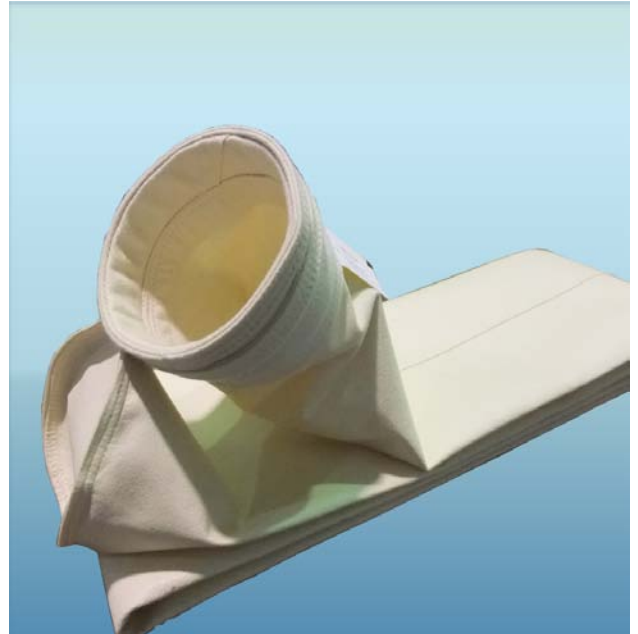
Other combinations of material qualities, weights, fibre types, and surface finishes available upon request.

## Dust Filter bags - HVAC Type

Dia. 160mm

### Type

- Dia. 160mm
- Base one end
- Snap cuff to suit cell plate dia. 167mm other end



### Dust Filter Bags - Snap cuff - Dia. 160mm

Dia. mm	Length mm	Product Code	Description	Felt Weight g	Fibre Type	Quality	Surface finish	
160	1900	NFW-PEPE554	Polyester	550	PE			
	2900	NFW-PEPE554EXCHARGE	Exchange	550	PE			
	3900	NFW-PEPE551EPI	Epitropic	550	PE			
	4900		NFW-PEPE554 CS17	Oleophobic	550	PE		CS 17
			NFW-PEPE551EXCHCS17	Oleophobic, Antistatic	550	PE	Exchange	CS 17
			NFW-PEPE554MPSCS17	Oleophobic, Microporous	550	PE	MPS	CS 17
			NFW-PEPE651	Polyester	650	PE		
		NF-PEPE550PMTEC	PTFE Membrane	550	PE	PM-Tec		
		NFW-PPPP554	Polypropylene	550	PP			
		NFW-DTDT551	Homopolymer Acrylic	550	DT			
		NFW-NONO504	Aramide	500	NO			
		NFW-PPS/PPS551	Ryton	550	PPS			

Other combinations of material qualities, weights, fibre types, and surface finishes available upon request.

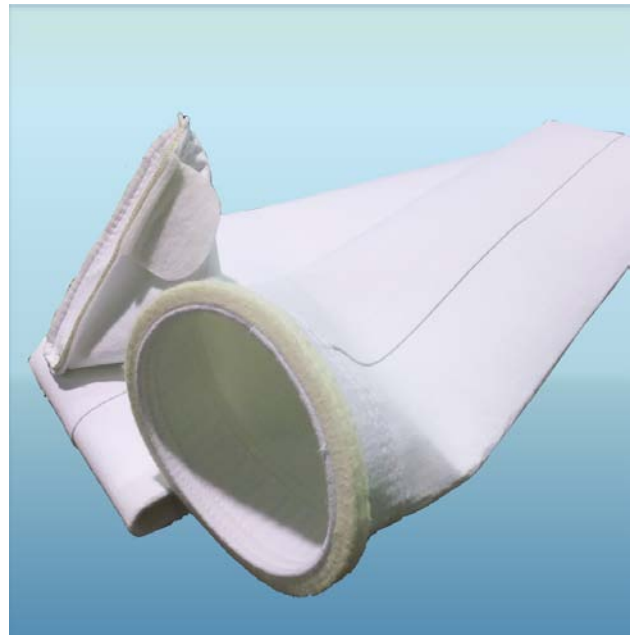


## Dust Filter bags - Luhr Type

Dia. 110mm

### Type

- Dia. 110mm



### Dust Filter Bags - Luhr - Dia. 110mm

Dia. mm	Length mm	Product Code	Description	Felt Weight g	Fibre Type	Quality	Surface finish	
110	1030	NFW-PEPE554	Polyester	550	PE			
	1530	NFW-PEPE554EXCHARGE	Exchange	550	PE			
	2030	NFW-PEPE551EPI	Epitropic	550	PE			
	2330	NFW-PEPE554 CS17	Oleophobic	550	PE		CS 17	
	2530	NFW-PEPE551EXCHCS17	Oleophobic, Antistatic	550	PE	Exchange	CS 17	
	2830	NFW-PEPE554MPSCS17	Oleophobic, Microporous	550	PE	MPS	CS 17	
	3030		NFW-PEPE651	Polyester	650	PE		
			NF-PEPE550PMTEC	PTFE Membrane	550	PE	PM-Tec	
			NFW-PPPP554	Polypropylene	550	PP		
			NFW-DTDT551	Homopolymer Acrylic	550	DT		
			NFW-NONO504	Aramide	500	NO		
			NFW-PPS/PPS551	Ryton	550	PPS		

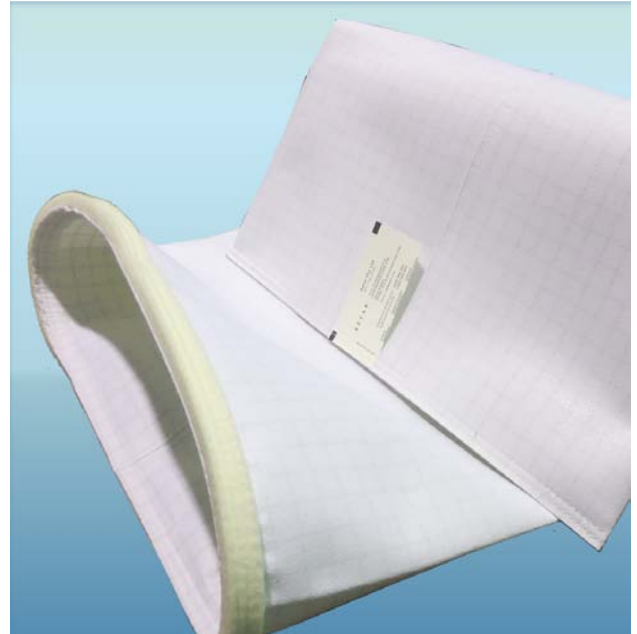
Other combinations of material qualities, weights, fibre types, and surface finishes available upon request.

## Dust Filter bags - DCE Vokes Dalamatic Type

Donaldson® Torit® Dalamatic®

### Type

- Dalamatic



### Dust Filter Bags - Donaldson® Torit® Dalamatic®

Dia. mm	Length mm	Product Code	Description	Felt Weight g	Fibre Type	Quality	Surface finish
	720	NFW-PEPE554	Polyester	550	PE		
	1010	NFW-PEPE554EXCHARGE	Exchange	550	PE		
	1250	NFW-PEPE551EPI	Epitropic	550	PE		
	1510	NFW-PEPE554 CS17	Oleophobic	550	PE		CS 17
	2000	NFW-PEPE551EXCHCS17	Oleophobic, Antistatic	550	PE	Exchange	CS 17
		NFW-PEPE554MPSCS17	Oleophobic, Microporous	550	PE	MPS	CS 17
		NFW-PEPE651	Polyester	650	PE		
		NF-PEPE550PMTEC	PTFE Membrane	550	PE	PM-Tec	
		NFW-PPPP554	Polypropylene	550	PP		
		NFW-DTDT551	Homopolymer Acrylic	550	DT		
		NFW-NONO504	Aramide	500	NO		
		NFW-PPS/PPS551	Ryton	550	PPS		

Other combinations of material qualities, weights, fibre types, and surface finishes available upon request.

## Dust Filter bags - DCE Vokes Unimaster Type

Donaldson® Torit® Unimaster®

### Type

- Unimaster



### Dust Filter Bags - Donaldson® Torit® Unimaster®

Type	No. of pockets	Pocket size ~	Product Code	Description	Felt Weight g	Fibre Type	Quality	Surface finish
UMA70	12	510x510	NFW-PEPE381	Polyester	380	PE		
UMA100	18	510x510	NFW-PEPE381EXCHARGE	Excharge	380	PE		
UMA150	18	550x700	NFW-PEPE384CS17	Oleophobic	380	PE		CS 17
UMA250	29	550x710	NFW-PEPE384EXCHCS17	Oleophobic, Antistatic	380	PE		CS 17
UMA450	2 x 18	700x890	NFW-PEPE475EPTX	Tetratex Epitropic	475	PE	EPI	
UMA750	2 x 24							

Other combinations of material qualities, weights, fibre types, and surface finishes available upon request.

## Dust Filter bags - Windsor Engineering

Dia. 118mm

### Type

- Dia. 118
- Base one end
- Snap cuff to suit cell plate dia. 124mm other end



### Dust Filter Bags - Snap cuff - Dia. 118mm

Dia. mm	Length mm	Product Code	Description	Felt Weight g	Fibre Type	Quality	Surface finish
118	3065	NFW-PEPE554	Polyester	550	PE		
		NFW-PEPE554EXCHARGE	Exchange	550	PE		
		NFW-PEPE551EPI	Epitropic	550	PE		
		NFW-PEPE554 CS17	Oleophobic	550	PE		CS 17
		NFW-PEPE551EXCHCS17	Oleophobic, Antistatic	550	PE	Exchange	CS 17
		NFW-PEPE554MPSCS17 *	Oleophobic, Microporous	550	PE	MPS	CS 17
		NFW-PEPE651	Polyester	650	PE		
		NF-PEPE550PMTEC	PTFE Membrane	550	PE	PM-Tec	
		NFW-PPPP554	Polypropylene	550	PP		
		NFW-DTDT551	Homopolymer Acrylic	550	DT		
		NFW-NONO504	Aramide	500	NO		
		NFW-PPS/PPS551	Ryton	550	PPS		

\* Stock item - Other combinations of material qualities, weights, fibre types, and surface finishes available upon request.



## Pleated Elements

### Replacement Dust Collector Cartridges

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#### Features

- Premium quality OEM cartridges to suit most makes and models of dust collectors.
- Expanded metal mesh core
- Spun bonded Polyester filter media
- Variety of top end cap configurations available
- Efficiency of 99% against 5-10 $\mu$  particle size and 100% efficient on 10 $\mu$  and over
- Includes cartridges to suit all major dust collector manufacturers
- Individually packed, easy to transport to site
- Selected models also available in:  
Oil & Water resistant, Antistatic, Food grade media



Please consult one of our sales consultants for a solution to suit your specific requirements.

## Accessories

### Support cages

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#### Support cages

For a properly functioning dust collector, it is important that the filter bag and supporting cage are correctly fit to each other.

Sefar can provide you with a complete line of dust collector cages manufactured to your OEM specifications.

Standard materials of construction typically consist of carbon, galvanized or stainless steel. Additionally our cages incorporate stamped or spun collars, pan bottoms and venturis as the standard construction.

We can also provide anti-corrosion coatings such as powder coating, zinc coating, galvanising, surface treatments (pickled & passivated, electropolished).

#### Support Cage Selection / Quotation

Please consult one of our sales consultants for a solution to suit your specific requirements.



Pictures supplied by BWF Envirotec

# Pyrotec® KE

## Ceramic Candle Elements for hot gas filtration

### Features

- Permanent temperature resistance of up to 850°C
- Peak temperature resistance of up to 1000°C
- Emission values of <math>< \text{mg}/\text{Nm}^3</math>
- Non flammable
- 100% spark resistant
- Extremely lightweight
- High air permeability
- Outstanding chemical resistance
- Version with T-shaped or conical collars
- Non-hazardous to health
- Biodegradable
- For new systems or retrofits
- Reduced energy costs, lower  $\Delta p$ -behaviour
- Reduced weight on the filter head plate
- Simple handling, easy installation

### Description

Pyrotex® KE candle elements provide extremely high chemical resistance. Gases containing sulphur or chlorine, such as those present during hot gas filtration, are separated by absorption using an admixture of appropriate additives. Fine dust can be separated using Pyrotex® KE, even at high temperatures and with corrosive gases.

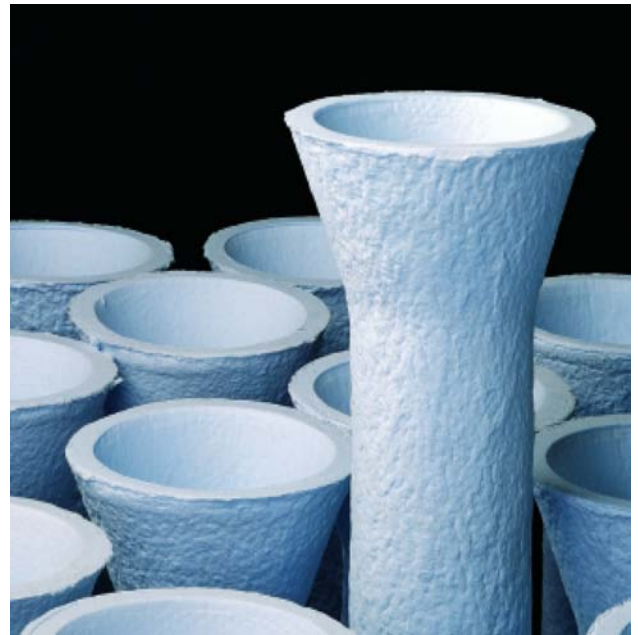
### Applications

Pyrotex® can be used in the following industries:

- Cement industry
- Glass industry
- Biomass and Waste utilisation plants
- Gasification processes of materials such as wood, or pyrolysis of contaminated soil
- Smelting processes
- Calcium carbide industry
- Chemical industry (precious metals, catalysers)
- Recycling of radioactive materials

### Standard dimensions

Type	Length	OD mm	ID mm	Collar length Conical collar mm	Collar length T-Shape Collar mm	Wall thickness	Air perm l/dm-2min @200 Pa	Filter area per element m2
KE60x	935	60	42		10	9	~150	0.17
	1515							0.28
KE150x	1080	150	110	80	20/30	29	~80-100	0.47
	1280			80	20/30			0.57
	1480/1530			80/130	20/30			0.66
	1820			100	20/30			0.81
	2000			80	20/30			0.90
	2200			80	20/30			0.99
	3000			80	20/30			1.40



Pictures supplied by BWF Envirotec



# X600 High temperature pleated elements

The benchmark in TiO<sub>2</sub>-filtration

## Features

- Failure free sealing concept
- No bag-house modification necessary
- Increased productivity and efficiency
- Longer service life
- Reduced energy consumption and emission levels

The X-600 is a unique, patented, pleated filter used in finishing of titanium dioxide pigment and other applications.

The new pleated cartridges resist high temperatures and have almost three times the surface area of other filter bags of the same diameter. In addition to providing increased air flow and superior efficiency, the pleated cartridges can replace old filters with no system modifications required. It surpasses the performance of any regular bags on the market and can increase service life by more than 100%. Outstanding results of 54 months have been shown for product lifetime. This represents the longest lifetime for any micronizer bag house lifetime in the world.

## Benefits

### Reduced operational cost

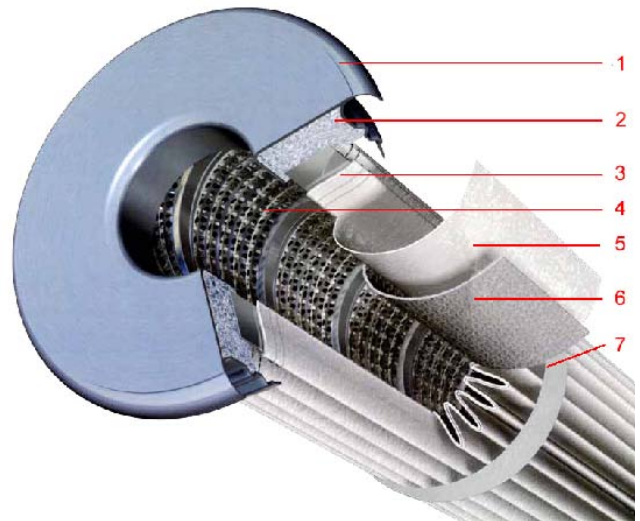
Existing conventional filtration solutions can be replaced by Sefar's X-600 High temperature pleated elements without any modification of the bag house – an inestimable added value. The process profits from the reduction of the differential pressure as energy consumption of fans and use of compressed air for cleaning systems are lowered remarkably.

Longer service life and operational reliability of the X-600 – High temperature pleated element minimize replacements and therefore shut-downs which has a positive effect on operational cost

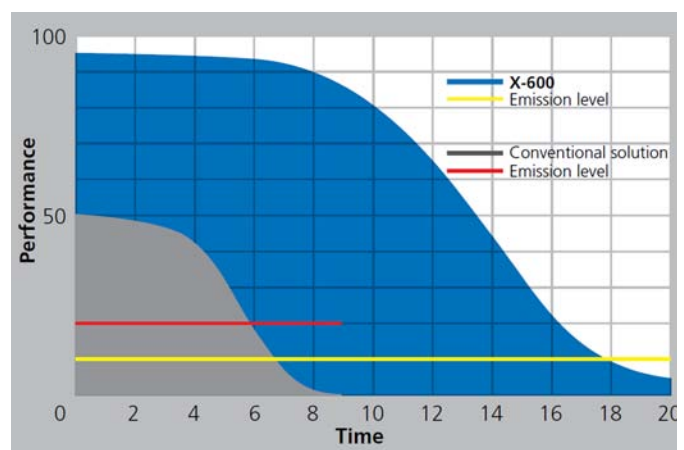
### Superior design for extended service life

Sefar's patented innovative potting compound makes sealing of end caps almost unbreakable. X-600 – High temperature pleated elements can be operated continuously at temperatures as high as 260°C without any degradation of the potting compound, being usually the main reason for element destruction.

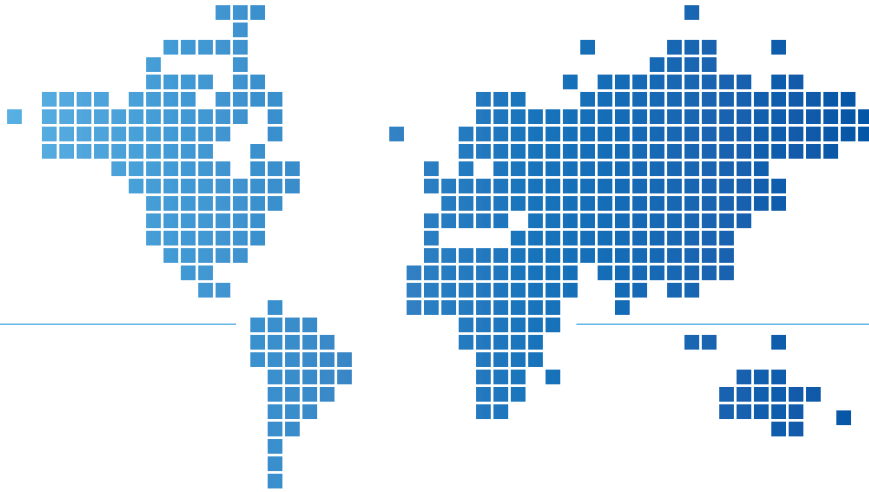
The X-600 – High temperature pleated elements are also shorter than conventional elements protecting them from abrasion at the inlet zone.



1. 100% metal top and end caps
2. Ultra-resistant aluminium sealing
3. Sealed stitching
4. Galvanised steel core
5. e-PTFE membrane
6. Fibreglass felt with type A phenolic resin
7. Heavy duty stainless steel bands







## Sefar worldwide

Sefar is the leading manufacturer of precision fabrics from monofilaments for the screen printing and filtration market. Sefar products are used in a wide variety of industries, reaching from electronics, graphics, medical, automotive, food and pharmaceutical applications to aerospace, mining & refining and architecture. With its profound understanding of the applications Sefar helps its customers to achieve optimum results in their industrial processes. Subsidiaries and fabrications centers in 25 countries on 5 continents provide local technical service for the broad range of solutions offered by Sefar.

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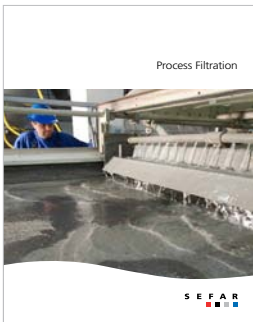
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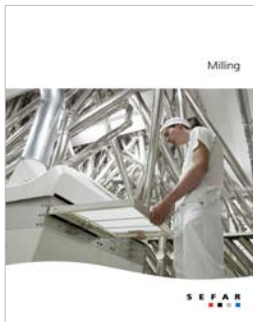
## Product range



- Process Filtration**
- Vacuum Belt Filters
  - Rotary Drum Filters
  - Rotary Disc Filters
  - Belt Press Filters
  - Filter Press
  - Horizontal disc filter
  - Leaf Filter
  - Tube Press Filter
  - Candle Filters
  - Batch Filters



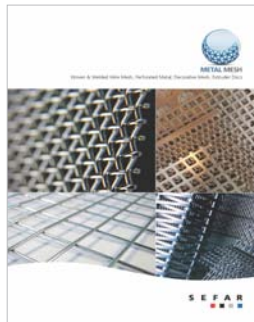
- Life Science**
- Fluid Bed Dryer bags
  - Connector Sleeves
  - Bowl screens
  - Pharma screens
  - Strainer bags
  - Centrifuge liners +bags
  - Nutsche & dryer bags
  - Vent-off dryer bags
  - Filter discs



- Food & Beverage**
- Nystal Sifter screens
  - Dust filter bags
  - Centrifuge sifter covers and liners
  - Connector sleeves
  - Milling accessories
  - Belts for food processing



- Liquid Filtration**
- Liquid Filter bags
  - Filter cartridges
  - Filter elements
  - Filter vessels
  - Self cleaning filters
  - Strainers
  - Accessories



- Metal Mesh**
- Woven wire mesh
  - Bolting cloth
  - Hollander weave
  - Welded mesh
  - Perforated metal
  - Vibrating Screens
  - Cylinders / Strainers
  - Discs

Our most current general sales conditions shall apply.  
 Please consult the most current local product data sheet prior to any use.

