



Sefar Filtration Solutions for the Dairy Industry



S E F A R
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The background is a dark, grayscale image of industrial machinery, featuring large circular components that look like turbine casings or engine parts. Overlaid on the left side is a complex network of white lines and dots, resembling a molecular structure or a data network. A solid blue horizontal bar is positioned across the middle of the image.

QUALITY FIRST

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SEFAR TRANSFORMS NEEDS INTO SOLUTIONS

For around 190 years, Sefar has been the global leader in the manufacturing of Monofilament Precision Fabrics for custom-tailored solutions in industrial filtration and separation processes and technical applications.

Through our filtration solutions and profound technical understanding, we meet the most demanding requirements for the purification and filtration of liquid. By understanding the customer's needs, we are able to choose the best solution to achieve the highest level of quality in the final product, thus optimising the production processes, in a *total cost of ownership approach*.

We are dedicated to offering tailored industrial filtration and separation solutions to minimise downtime on continuous or batch operating systems, maximising the efficiencies and effectiveness of our customer's production processes.

We support our customers through strong technical knowledge, based on innovation, quality & tailored solutions.

GLOBAL PRESENCE Local Support



Production of fine & medium yarns

Switzerland, Poland
Romania, Mexico



Weaving Plant Operations

Switzerland, Romania
Thailand



Customised fabrication of filter materials

Australia, New Zealand

THE ONLY FABRICATOR WITH A FULLY INTEGRATED SUPPLY CHAIN

Manufacturing and Quality

Sefar Oceania's local manufacturing facilities can provide tailor-made solutions for a wide range of production processes as well as custom made designs that are guaranteed to produce the best quality final product.

During the production, we assure strict product quality and reliability, based on strict monitoring and control of the production process. We can provide custom made labels, colour coding or other designs to assist our customers quality requirements by ensuring the right filter solution is used for each process step. Our facilities are regulatory audited by competent authorities to guarantee the best quality management system.

- Transparent & traceable business practice
- Manufacturer of precision fabrics using monofilament & multifilament yarns
- Custom made designs with a consistent product quality
- Full control over product quality and product tracking



Warehousing facilities to offer
high level of stock availability.



Laser cutting to produce consistent
shapes and sizes.



Lab capability to assure
quality control for our
customers.



FDA & EU
compliance.



White room facility.



ISO 9001-2015
accredited.

SEFAR SOLUTIONS FOR THE DAIRY INDUSTRY



FROM START TO FINISH

Implementation of technical solutions to improve milk production processes optimisation is of vital importance.

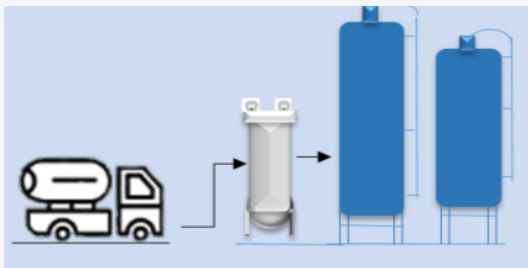
This results in a reduction of time, resource, waste, and overall reduction of costs, whilst ensuring the process objective of creating a product at the highest level of final quality.

Sefar, through our complete solutions proposal for filtration and separation applications, supports the dairy products industry to improve the process effectiveness and process reliability.

Our technical solutions can be used in different steps of dairy production from liquid filtration to dry filtration, to have the highest quality dairy products.

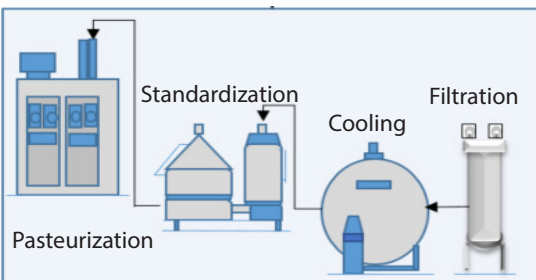
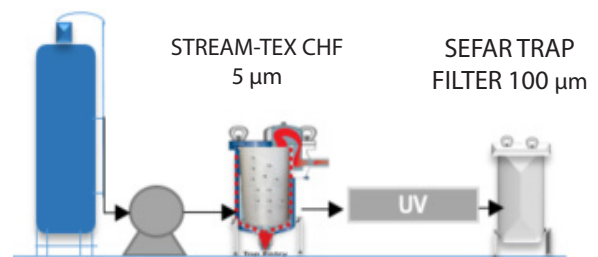
STEP BY STEP FILTRATION APPLICATIONS

WASH WATER

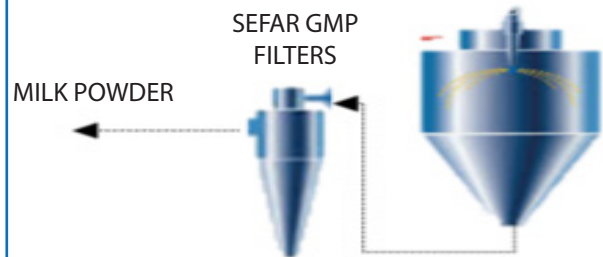


SEFAR MESH BAGS 5 μ m

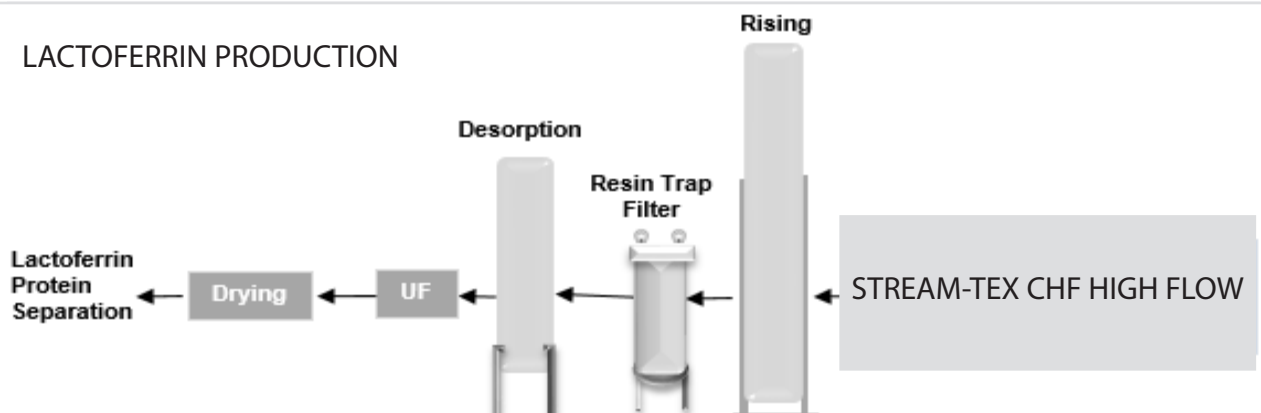
INCOMING WATER



SPRAY DRYING



LACTOFERRIN PRODUCTION



STREAM-TEX PRODUCT PORTFOLIO

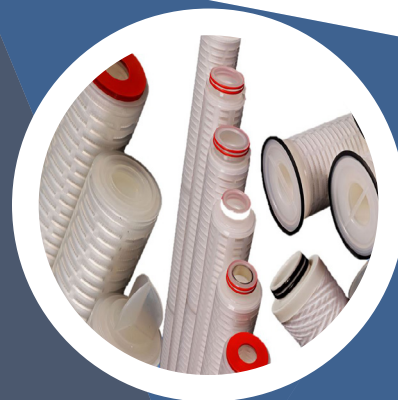
The unique CHF High Flow Pleated Filter Elements with inside to outside flow pattern design, offer a high filtration surface area in a compact design to fit regular filter vessels.

Fewer change outs are required during operation, and a lower capital investment is required on new installations.

Stream Tex Filter Bags in micro-fiber, felt and mesh media, inside to outside flow pattern design, minimise downtime and cost on continuous or batch operating, resulting in the capture of contaminants on the inside of the bag.

Custom manufacturing locally and ready to go. Stock held locally in AU and NZ.

Complete range of filter cartridges that minimise process downtime, reduce or eliminate waste disposal costs, limit worker exposure to the process liquid, reduce maintenance time and expense, and improve product quality.



STREAM-TEX

Solid - liquid filtration and separation solutions minimise the downtime on continuous or batch operating costs, resulting in maximum production efficiency leveraging on the customer's total cost of ownership.

“ STREAM-TEX LIQUID FILTER BAGS ”

Sefar offers a wide range of liquid filter bags for solid-liquid separation with premium quality Sefar monofilament mesh and the felt media.

The unique fully welded seam design, combined with the multi seal collar, eliminates the risk of bypass caused by stitching holes, thus guaranteeing the best compression sealing mechanism during operation.

Stream-Tex Filter bags with an outside flow pattern design, minimises downtime and cost on continuous or batch operation, resulting in the capture of contaminants on the inside of the bag.

Stream-Tex offers a complete range of filtration media and size, from microfibre, felt and mesh in polypropylene, polyester, nylon.

Our solutions are designed to have outstanding performance on dirt holding capacity and service life due to the thickness of material and the microfibre multilayer structure.



CHF High Flow

Features and Benefits

- Inside to outside filter design provides consistent filtrate quality, a clean filter vessel and easy removal of contaminants.
- High surface area in a pleated microfibre design provides more than double the flow rate of a standard P2 bag, longer service life, and a much higher dirt loading capacity for fewer filter change-outs.
- Compact and space saving design that fits most existing P2 size vessels, results in lower capital and installation costs, easy disposal.
- Absolute ratings @99% efficiency rated results in constant particle removal efficiencies, which extend existing final sterilising membrane life.



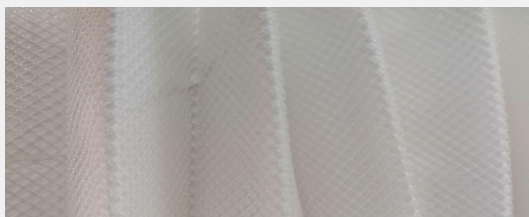
Polypropylene pleated filter element

The unique, absolute @99% efficiency rated, polypropylene pleated microfibre membrane filter element, FDA compliant, featuring an inside to outside flow pattern design, provides a significantly increased service life and dirt holding capacity through the unique internal pleat design.

It combines the advantages of conventional filter bags and filter cartridges in one filter element, offering a unique combination of benefits and unmatched economics.

The CHF is a large diameter, single open end, pleated element designed to reduce system investment and disposal cost via long service life. It is able to replace from 10 to 20 standard P2 bags, saving costs of change outs. The innovative compact system design reduces the size of the housing required for your application.

The irrigation channel mesh design inside the pleats (figure 1) provides a uniform distribution of fluid and contaminants to the entire filtration surface of the filter element.



Construction

- Absolute Rating @ 99% CHF 0.5-120µm
- Filter Media, Center Core, End Caps, Outer Sleeve: 100% Polypropylene
- O-Ring: EPDM

Element Dimensions

- Inside Diameter: 85 mm
- Outside Diameter: 152 mm
- Length: 32" (634 mm)
- Dirt Holding capacity: 900 l/min
- FDA 21 CFR

Operating Conditions

- Max. Operating Temperature: 80°C (CIP 90°C)
- Max. Differential Pressure: 3.4 bar @ 20°C
- Recommended Differential Pressure: 2.4 bar @ 20°C

ORDERING INFORMATION

Type of Filter	Size	Rating µm
CHF	1 2	005, 001, 002, 003, 005, 010, 020, 040, 070, 100, 120

Order example: Size 2, rating 5 µm = CHF-2-005

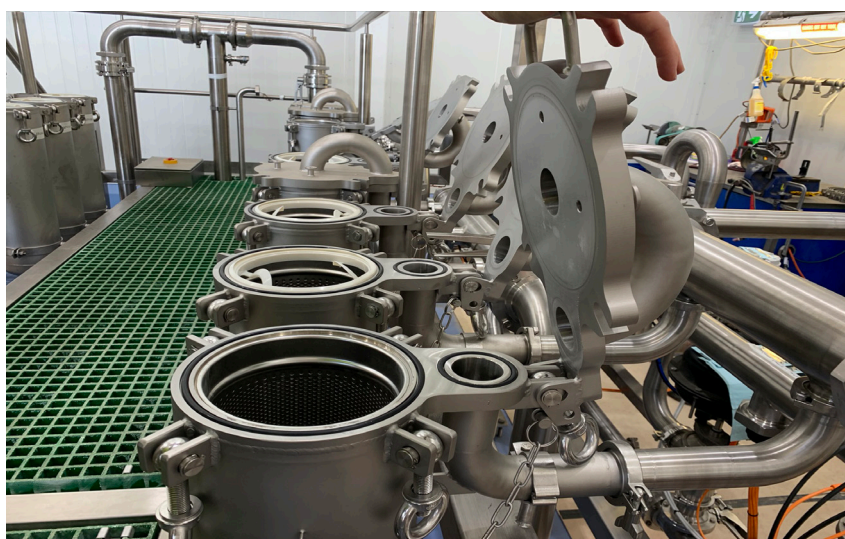
STREAM-TEX PVBS FILTER VESSELS

The Stream-Tex PVBS durable side entry filter vessel provides the convenience in handling filtration processes, with an easy opening mechanism with bag filter fixing ring, to ensure good sealing for both plastic collar fully welded filter bags and CHF high flow filter elements.

The PVBS vessel is suitable for general filtration requirements in most industrial applications with liquid of low to medium viscosity.

FEATURES AND BENEFITS

Completely cleanable with easy access to all wet parts.
Full 80 mm ports for unrestricted flows.
Positive bag or filter element sealing.
Single gasket cover seal: EPDM.
Inlet/Outlet ANSI flange connections 3".
Internal to external mechanical polished and bead blasted surface.
304 or 316 SS construction.
Certification: AS/NZ1210.
Flow rate from 225-700 l/min.



ORDERING INFORMATION









Model	Size	Vessel material	Inlet/Outlet	Connections	Cover Closure
PV-BS	2 = 1 x #2	316 = 316SS	3 = 3"	A = ANSI	I = I bolt

PV-BS2-316-3AI for CHF High Flow Filter Element

STREAM-TEX FILTER VESSELS

Sefar has designed a diversified range of filter vessels to meet the most demanding industrial filtration and separation applications. From side to top entry, single to multibag, Sefar provides a wide range of filter vessels in different materials and design, to cover all the customer's requirements such as temperature, chemical compatibility, pressure, design and certifications. Our solutions accommodate a large range of flow rates for different inlet/outlet sides for any industrial liquid filtration applications.

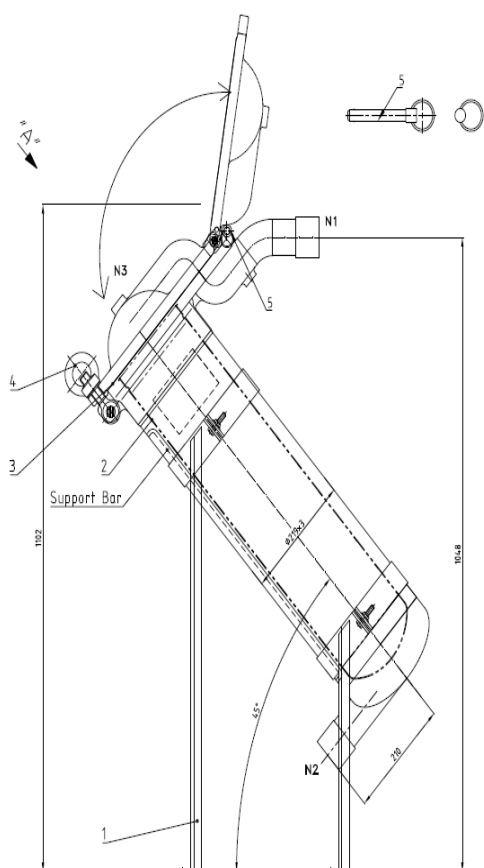
Filter Vessel Types

PVPP Corrosive Applications	PVBS Side Entry	PVBT Top Entry	PVBA Top Entry / Easy bag change
			
Single bag design Steel Side entry vessels High Pressure and Temperature Flow rate from 300-650 l/min	Single bag design Steel Side entry vessels Cost-effective solution Flow rate from 225-700 l/min	Steel Top entry vessels Minimal headroom required Easy bag change-out Flow rate from 225-700 l/min	Based on our standard PVBT's 45° design for ease of bag change, reduces OH&S issues Flow rate from 225-700 l/min
PVBM Multi Bag Cartridges	PVBD Duplex	PVSC Self Cleaning	Accessories
			
High flow steel vessel Most cost-effective solution Flow rate up to 8100 l/min	Duplex- Multi Bag or High Flow Filter Element design	Self cleaning filter No bags required 3 size available Flow rate from 50- 750 l/min	O ring, eye bolt set and tool, Bag Fixing Ring, Lid, Strainer Baskets, Pressure Gauge, Evacuation Float , Adaptor Heads, Legs.

Many of our pressure vessel custom-built solutions include:

- Multipurpose filter vessels: vessels to accommodate both filter bags and high flow elements capable of increasing flowrates by four times and providing absolute filtration level.
- Sanitary finish: filter vessels designed and built to meet the requirements of the dairy industry
- Duplex Filter Systems

STREAM-TEX PVBA 45 DEG FILTER VESSELS



45
deg

PVBA

A new innovation in our filter vessels range for dairy industry, Stream Tex PVBA top entry filter vessels with 45° ergonomic design.

The unique design P2 filter vessel on a 45° angle assists the dairy operator in installing and removing the filter bag or elements with a lot less strength required to lift the bags out of the standard vessel.

The special design of the lid with an integrated locking mechanism, adds further safety to the operator, respecting the WHS regulations based on robust health and safety systems in place.

Model	No and type of bags	Vessel Material	Inlet/Outlet	Connections	Cover Closure
PV-BA	2 = 1 x #2	DF = 316SS Dairy Finish	3 = 3"	R = RJT Connection	I = 1 bolt

PVBA 45° design vessel for No. 2 bag, 316SS with DF Dairy Finish, 3" RJT Connection = PV-BA2-DF-3RJT
Gasket materials: EPDM
Operating pressure 150PSI / 10.34 bar @85 °C
Finish: Mechanical Polish 400 mesh

POWDER RETENTION GMP FILTER BAGS



Product code	Material	Felt Weight gr	PTFE Membrane	Antistatic
07-550-50 NFMA PHARMA	Polyester	550	✓	✓
07-550-50 NFM PHARMA	Polyester	550	✓	
24-750-50 NFM PHARMA	PTFE	750	✓	



THE CERTIFIED FILTER BAG SOLUTION

The production of dry milk powder within the dairy industry which is completely safe for human consumption, requires pressing control of product contamination during manufacturing. Sefar Powder Retention GMP filter bags represent the highest level of security available in the dairy market today.

The folded edge avoids any possible contact between the product and the needle felt so that there is no possibility of powder contamination from the staple fibres.

Anti static properties are the main requirement in any dry filter application to aid with filter performance and filter safety. Sefar is unique in the world as we can offer fully anti static material that does not leach into the product, and is ATEX approved to 10ohms from base to cuff.

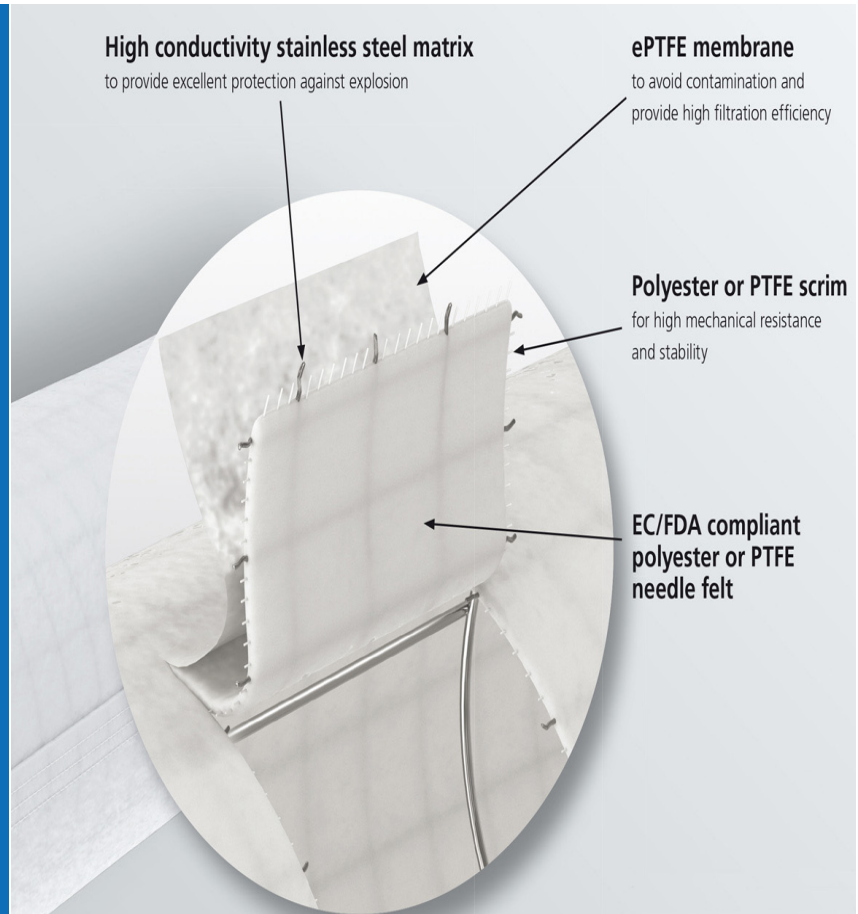


THE HIGHEST
LEVEL OF SECURITY
AVAILABLE IN THE
MARKET TODAY

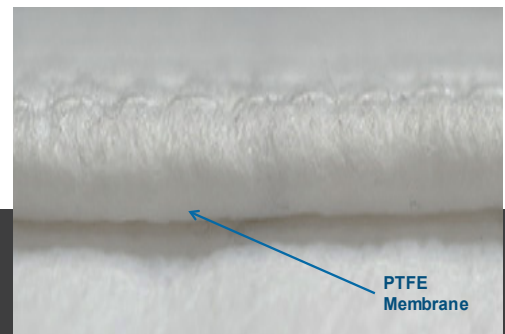
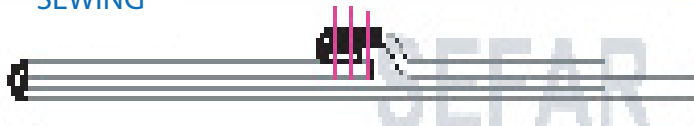


CERTIFICATIONS

- EC 1935/2004
- EC 10/2011
- GMP EC 2023/2006 or GMP
- FDA CFR 177
- ISO 9001
- ISO 22000
- Melamine free declaration
- ATEX (EC 94/9)
- Single packaging
- Customized labeling



SEWING



FEATURES

- Only the ePTFE membrane is in contact with the product.
- The sewing thread material is PTFE with special needles used to produce the stitches.

&

- High performance edge design.
- Bottom design with folded open edges to avoid needle felt staple fibres to be in contact with the product.

BENEFITS

- Choice between different levels of certification: Pharma GMP, FoodTec and Standard
- No leakage due to a unique design used to manufacture the bags.
- Single packaging for top level (GMP)

SCREENS AND CAGES

FEATURES AND BENEFITS

- High flow rates for maximum throughput.
- Precise mesh openings for consistent particle sizes.
- All screens are tensioned to the correct mesh specifications and tension checked after screen completion, this is vital to the life and performance of every screen.
- Proper fit and flatness for trouble free operation.
- Custom made screens to meet virtually any need.
- New Powder screens.
- Available in FDA Nylon and Polyester mesh and stainless steel.
- FDA sifter balls and pads\Kason Swaco / Russell Finex spares.
- Screen re-meshing.



SCREENS

Sefar designs and manufactures durable screens for a number of dry powder applications in the dairy industry. Sefar screens are manufactured to the required applications.

Our screening material is carefully tensioned and then bonded or bolted to the stainless steel rings. Only FDA compliant materials are used for adhesives and sealants.

Sefar has a large range of mesh options available such as FDA Nylon and Stainless Steel.

CAGE - Food Grade Dust Filter Cages

FEATURES AND BENEFITS

- Burr free.
- No sharp edges.
- No weldmarks, discoloration.
- Material 304 stainless steel.
- Finish: Polish < 0.2 Ra Electro-Polish.

LOCAL MANUFACTURING FACILITIES IN AUSTRALIA AND NEW ZEALAND

Technical assistance and service

- Full lab facilities for detailed media analysis
- Material testing facilities
- Filter vessel selection service
- Filter media selection service
- System design assistance

With our extensive experience in the process filtration industry and using our local test lab facilities, we have the ability and equipment to design a system for you to suit your individual process application.



Our local production facilities allow us to design and produce cost-effective quality filter bags, adapting existing designs to provide you with tailor-made solutions as well as custom made designs to suit many other applications.

We can also integrate custom made labels, colour coding or other designs that can assist your quality requirements by ensuring the right filter bag is used for each process step.



CUSTOM MADE
DESIGN

APPLICATION
SPECIFIC
MODIFICATION

FAST TURNAROUND
TIMES

CONSISTENT
QUALITY

CERTIFICATION



Sefar Pty Ltd
19-21 Huntingwood Drive
Huntingwood NSW 2148
ABN 51 094 432 667

Phone +61 2 8822 1700
Fax +61 2 8822 1744
www.sefar.com.au

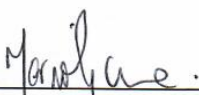
Our ref. Mario Grima
Phone direct +61 2 8822 1700
E-mail direct Mario.grima@sefar.com
Document FDA Compliance
Date November 6, 2019

FDA Compliance

All CHF High Flow Cartridges and End Caps are manufactured using FDA compliant materials under the Federal Food, Drug, and Cosmetic Act under regulations:

21 C.F.R. 177.1630
21 C.F.R. 177.2600
21. C.F.R.177.1520

Provided that the end user is complying with FDA's good manufacturing practices under Title 21 C.F.R. 174.5.

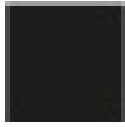


Mario Grima
Quality Assurance Manager

WHY SEFAR?



» Brand
Global brand strength
and reputation.



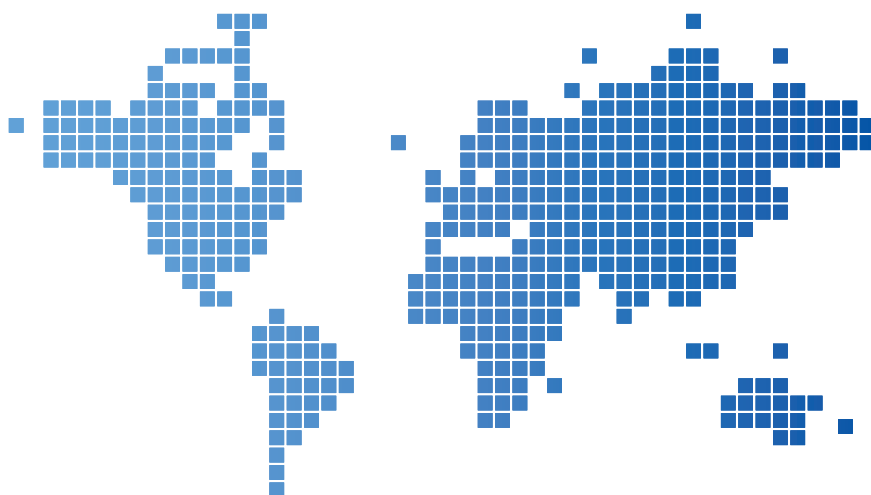
» Global network
Strong customer service
and fast, reliable deliveries.



» Added value
Innovative solutions for
individual needs and
requirements.

» Vertical integration
From yarn to fabric
production and
ready-made solutions.





Sefar Oceania

The best value solutions for filtration and separation applications

Sefar is the leading manufacturer of precision fabrics from monofilaments to custom-tailored filtration solutions in the industrial market. Sefar products are used in a wide variety of industries, reaching from mining and refining, food and beverage, pharmaceutical, chemical, aerospace and architecture. With its profound understanding of applications, Sefar helps its customers to achieve optimum results in their industrial processes.

Sefar Oceania was established in 1968 and it is a 100% subsidiary of Sefar Switzerland with 6 sales regions covering Australia, New Zealand and the Pacific Rim. With over 55 employees and manufacturing facilities in Australia and New Zealand we are the most diverse mesh and filter products solution provider in a single supplier.

Australia & New Zealand

Head Office Oceania
Sefar Pty Ltd
19-21 Huntingwood
Drive
Huntingwood NSW 2148

Phone 1300 306 661
oceaniasales@sefar.com
www.sefar.com.au

WA
Sefar Pty Ltd
Unit 4 , 68 Callaway
Street Wangara WA
6065 Australia

Ph +61 8 9303 2600
saleswa@sefar.com
www.sefar.com.au

New Zealand
Sefar Filter Specialists Ltd
24G Allright Place
Mt Wellington, AKL
1060 New Zealand

Ph +64 9 527 4409
salesnz@sefar.com
www.sefar.nz

Our current general sales conditions shall apply.

Please consult the current local product data sheet prior to any use.

