SEFAR® PHARMA GMP BAGS The certified filter bag solution

Sales Seminar 2014 | Life Science Saronno/Wasserburg, 19-20 November Andrea Donati



SEFAR® PHARMA GMP BAGS

GMP compliant filter bags for powder processing in the life science market.

Integrated production in clean controlled environment.

Choice between different levels of certification.

Unique manufacturing solutions.

High filtration performance.

Taylor made manufacturing (no standard sizes).



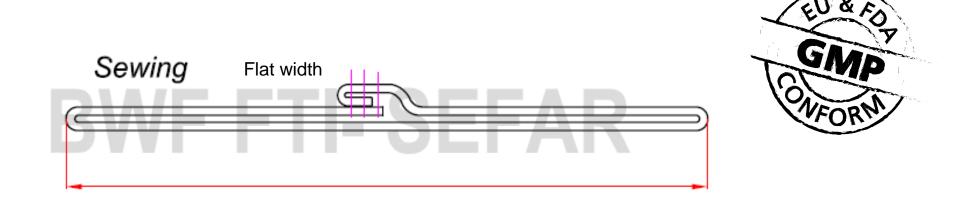


Unique Selling Proposition

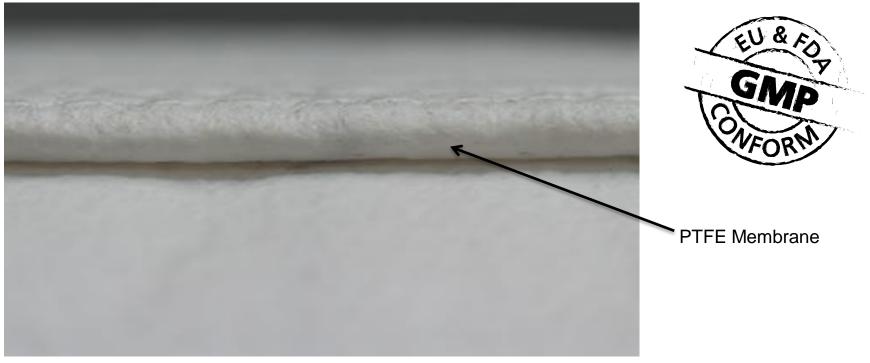


All the cut edges of the needle felt are folded in the sewing, to avoid contact between the customer's product and the felt staple fibers. This will give the guarantee of avoiding possible contamination of the product by the fibers. The product will be in contact only with the ePTFE membrane (No releasing particles). The sewing thread material is always PTFE, FDA and EU compliant.

The stitches are produced with a special needle to avoid leakage.



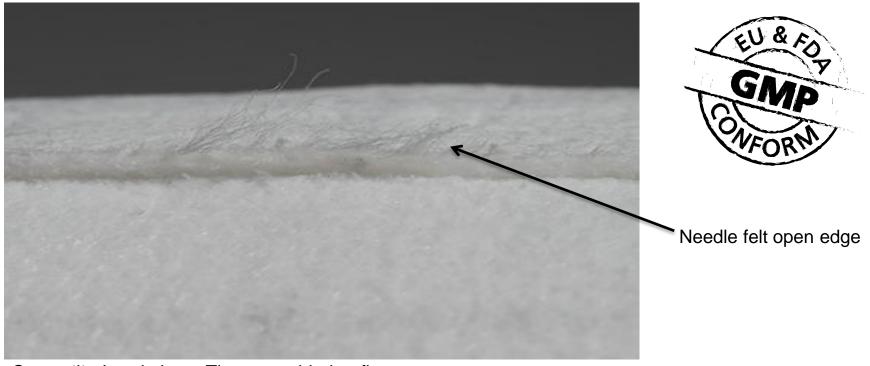




Sefar solution (Mandatory for SEFAR® PHARMA GMP level – Folded edge)

The folded edge avoid any possible contact between the product and the needle felt so that there is no possibility of powder contamination from the staple fibers. Moreover this solution guarantee that particles of valuable product can be clogged in the needle felt section.





Competitor's solution – Thermo welded or flat sewn

The thermo welded longitudinal seam is one of the most used solution by competitors. In this case it's not possible to avoid that fibers from the needle felt get in contact with the product, with high risk of contamination





Competitor's Pharma bottom

This is an example of bottom proposed by the competition (Heimbach in this case). To obtain this bottom design is needed to produce the bag with the membrane on the internal part, and pull the finished bag inside out, with the high risk to damage the membrane during the operation.



Sefar Pharma bottom

This is the Sefar Pharma bottom, with folded open edges to avoid needle felt staple fibers to be in contact with the product.





Sewings



Sewing are a always made using EU/ FDA PTFE threads.

Special needles are used to avoid having holes that let the product pass through.

In the folded seams there are always 3 layers of felt and membrane, that ensure to avoid leakage through the holes:

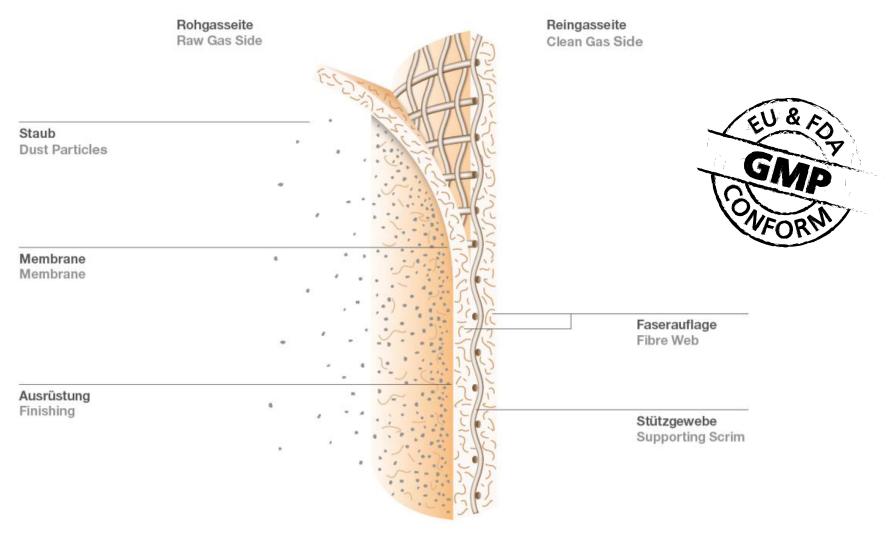


This sewing has been tested in the field in critical conditions, with positive results (No leakage).

At the end of the manufacturing process all the sewing are controlled, to eliminate eventual exceeding threads.

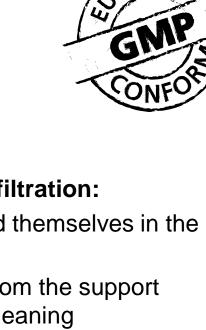


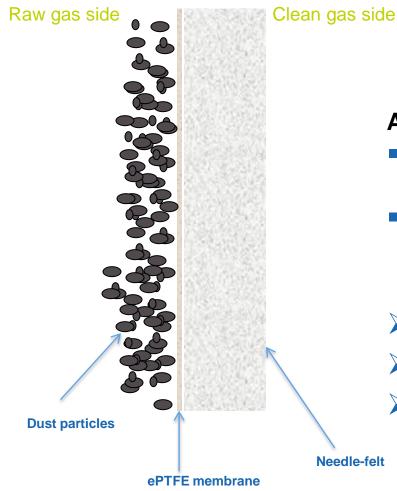
ePTFE Membrane: Functional principle





Surface filtration





Advantages of surface filtration:

- Particles do not embed themselves in the support medium
- The dust is removed from the support medium during each cleaning
- Constant differential pressure behavior
- Constant gas volumetric flow
- Hence minimum emission



SEFAR® PHARMA GMP — Product positioning

	Available quality levels		
	PHARMA GMP	PHARMA	Standard
Food and Drug conformity for complete filter	✓	X	X
FDA and EC regulation compliance for all components	√	X	X
All production processes and fabrication according to EC 2023/2006 or corresponding cGMP	√	X	X
Fabrication processes in dedicated cleanroom (GMP class D or ISO class 8)	√	X	X
Food and drug conformity for filter media	√	✓	X
Tested for extractables and migration values according to EC 10/2011	√	√	X
Food and drug conformity for filter media polymers	√	√	√
ISO 9001 Quality control procedures	√	√	√
Dedicated sales staff, including on-site sales support	$\overline{\hspace{1cm}}$	√	√
Products backed by engineering support staff		√	√
PHARMA labels (where applicable)	√	optional	optional
Conductivity certificate for complete filter (where applicable)	√	optional	optional



Documentation



	Material certifications FDA CFR, EU 10/2011, EC 1935/2004	Material data sheet	ATEX certification for conductive material	Process following GMP guidelines + Single packing	Test report with values upon request(*) (final inspection)
Top Level					
SEFAR PHARMA GMP BAGS					
Mid Level					
SEFAR PHARMA BAGS					
Low level					
SEFAR DUST BAGS					



SEFAR® PHARMA GMP Declaration (Top Level)







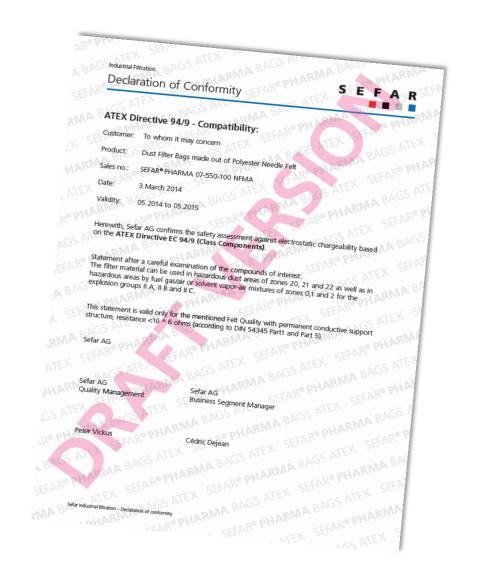
SEFAR® **PHARMA**Declaration (Mid Level)





SEFAR

ATEX Declaration







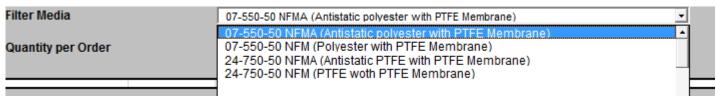
Single packing for top level



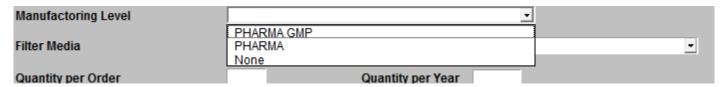


Design your bag

Window for filter media selection:



Window for level selection:



Window for top connection selection:



Window for bottom selection







Brochure





To explore the complete SEFAR® PHARMA product line (Fluid bed dryers, centrifuge bags and liners, filter disks...) and more, visit our website **www.sefar.com**

