



Kronsbein ultrafilter ®



**ultrafilter high-performance filter
FF / MF /SMF with
ultra fibre technology**

Ultrafilter filter elements FF / MF / SMF

High performance filter ultrafilter

- ultrafilter high-performance depth filter for removal of water and oil aerosols as well as particles from compressed air and gases.
- Thanks to the unique combination of binderfree, non-woven ultra fibre filter media and pleating technology, a reduction in energy costs of 70 % is achieved, as well as an improved filtration performance.
- The new ultra fibre material from Ultrafilter is oleophobic, which means oil and water are actively rejected, so the differential pressure drop and therefore operation costs are reduced to a minimum compared with a conventional filter element.

Features		Benefits
Binderfree, thermally welded ultra filter media		Low differential pressure and high particle load
Oleophobe filter media		Rejects oil and water
Pleated filter media		450 % more filtration surface, higher particle load capacity, low air flow speed
Support sleeves of stainless steel (316L)		Extremely large free flow, secure and long operation

Type	Residual oil content at an inlet of		Residual oil content acc. ISO 12500-1
	3 mg/m ³	10 mg/m ³	
FF	<0,1 ppm	0,2 ppm	99,6 %
MF	<0,03 ppm	0,03 ppm	99,7 %

Validation:

Validation of ultrafilter high-performance filters by University Amberg

Advantages and benefits

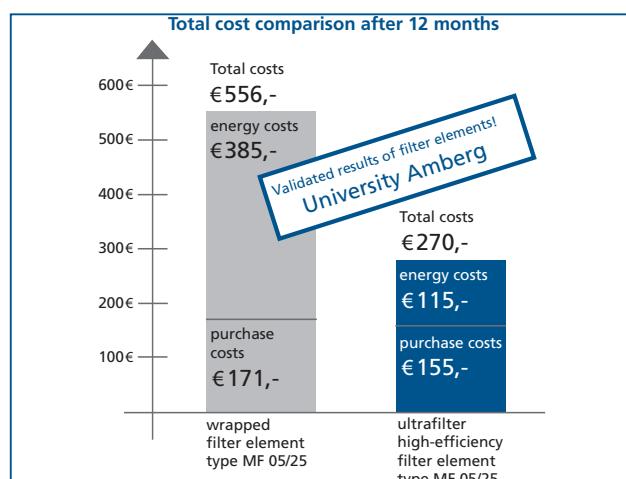
- 450 % greater filter media compared to standard elements
- lower differential pressure
- improved filtration efficiency
- greater dirt-capturing capacity
- 70 % less energy costs

Applications

- chemical and petrochemical industry
- pharmaceutical industry
- food & beverage
- plastic industry
- process filtration
- instrumentation air

Materials

Outer foam sock:	• blue polyurethane foam sock up to +80 °C • HT/CR sock up to 120 °C • HT/NX sock up to 180 °C
Support sleeves inner/outer:	stainless steel 1.4404 / 316L / V4A
Pre- and after filter medium:	pleated Cerex
Filter medium	binderfree ultra fibres of borosilicate
Bonding:	Polyurethane
End caps:	Aluminium
O-Rings:	Perbunan, silicon free and free of parting compounds



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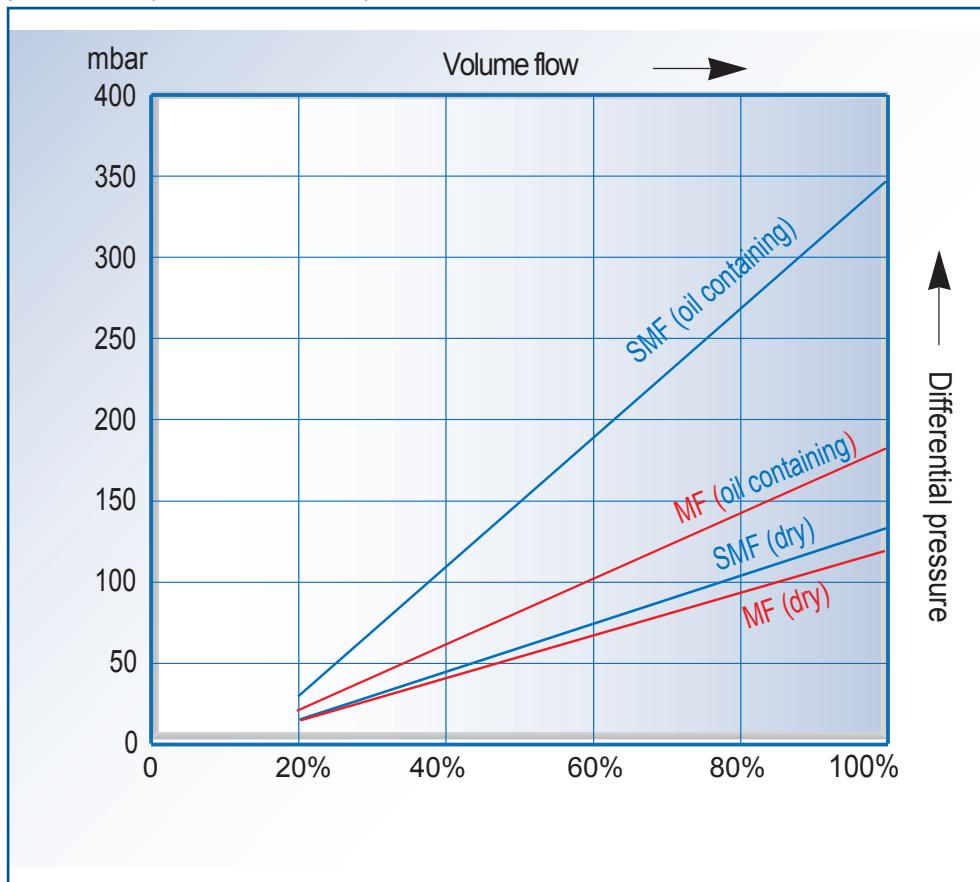
Retention rate at a particle size of 0,01 µm:	
FF	99,999 %
MF	99,99998 %
SMF	99,99999 %

Start-up differential pressure:	
FF	0,04 bar
MF	0,08 bar
SMF	0,09 bar

Max. differential pressure:	
5 bar at 20 °C, independant from operation pressure	

Element size	Correction factor
02/05	0,04
03/05	0,08
03/10	0,12
04/10	0,17
04/20	0,19
05/20	0,25
05/25	0,32
07/25	0,47
07/30	0,68
10/30	1,0
15/30	1,55
20/30	2,10
30/30	3,28
30/50	5,90

Differential pressure of a MF/SMF filter element at trockner und oil containing compressed air (acc. ISO 12500-1).



Technical alterations reserved.



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