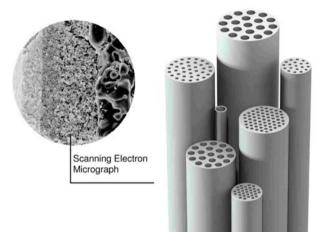


Schumasiv[™] Ceramic Membrane Filter Elements

Description

Schumasiv ceramic membrane filter elements are made of pure α Al₂O₃, the chemical stable variant of alumina and the membranes consist of Al₂O₃, ZrO₂ or TiO₂, depending on pore size.

Due to fine nuanced manufacturing steps, Schumasiv ceramic membrane filter elements can be produced with a wide range of pore sizes covering the whole range of micro and ultra filtration. The tube shaped mono and multi channel filter elements are suitable for applications under abrasive and chemical aggressive conditions. Schumasiv filter elements have an outstanding filtration efficiency at high flux rates, e.g. on oil / water separation applications.



Applications

Membranes

 Chemical Industry 	Process water, acid and lye
	filtration, catalytic recovery
 Oil / Water Separation 	Compressor condensate filtration,
	degreasing baths, washing water,
	coolant lubricants
Waste Water	Biomass separation,
	COD reduction
Food and Beverage Industry	Various applications
	for clarification

Technical Information

Support	α -Al ₂ O ₃				
Membranes					
Microfiltration	α -Al ₂ O ₃ :	2 to 0.2 µm			
Ultrafiltration	ZrO_2 or TiO_2 :	0.1 to 0.005 µm			
Maximum Pressure	15 bar				
Maximum Temperature					
Epoxy resin sealing	120 °C				
PTFE sealing	200 °C				
 Porosity (support) 	Approximately 33 %				

Chemical Resistance¹

Schumasiv filter elements are resistant against most chemicals. Care should be taken when operating continuously with high acid concentrations at elevated temperatures. Schumasiv filter elements are not resistant against HF.

Resistance of Epoxy resin against strong acids and polar organic substances like short-chained carboxylic acids and alcohols is limited.

¹ As end use conditions can vary, it is the users responsibility to verify compatibility with their specific use conditions.

General Information

- Module housings are manufactured from stainless steel and are available for all geometries.
- Module housings can be supplied containing up to 36 m² of membrane surface area.
- All connection variations are possible.

Ordering Information

Schumasiv (MF)	Unit	01/7	01/16	07/6	19/3.3	31/2.8	19/6	37/3.6	61/3.1	19/8
Number of Channels		1	1	7	19	31	19	37	61	19
Channel Diameter	mm	7	16	6	3.3	2.8	6	3.6	3.1	8
Outer Diameter	mm	10	25.4	25.4	25.4	25.4	41	41	41	52
Membrane Surface 1	m ²	0.022	0.050	0.132	0.200	0.292	0.358	0.418	0.652	0.478
Length ²	mm	1000	1000	1000	1000	1200	1000	1000	1200	1000
Part Number for 1.2 µm Membrane	mm	88501101	89582262	89582267	88519151		88519810 ³	88537091		89580914 ³
Part Number for 0.6 µm Membrane	mm	88501091	89582263	89582268	88519311	89581045 0.8 μm	88519611	88537071	89582317 0.8 μm	89580370
Part Number for 0.2 µm Membrane	mm	88501041	89582264	89582269	88519001	89580973	88519021	88537011	89582318	88519401
Part Number for 0.05 µm Membrane Part Number for	mm	88501051	89582265	89582270	88519041	89580972	88519101	88537001	89582319	88519391
0.005 µm Membrane	mm	88501061	89582266	89582271	88519081	89581046	88519421	88537111	89582320	88519491

¹ at 1000 mm length.

² standard length, 1200 mm possible, other dimensions upon request; 19/6 also avaliable in 1500 mm length.

³ end sealing with Epoxy resin (all others with PTFE sealing).

Please contact Pall for enquiries relating to dimensions not mentioned above.



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