



CARING filtrate

ABOUT US

ADG FILTER SCIENCE being a manufacturer of Microfiltration products; we produced high-quality filter cartridges. Considering an application our technical experts designed the filters to provide excellent output on a downstream level. Microfiltration is suitable for the separation of cells, bacteria and particles. Generally used for pre-treatment.

The membrane pore size range is from 0.1 to 1 μ (micron), and it can also be used for clarification and se Microfiltration belongs to precision filtration, and its basic principle is the process of sieve separation. Microfiltration is suitable for the separation of cells, bacteria and particles. Generally used for pre-treatment and it can also be used for clarification and security filtration of general liquids. The application scope of the microporous membrane is mainly to trap particles, bacteria and other pollutants from the liquid to achieve the purpose of purification, separation and concentration.

At ADG we strive to provide technologically smarter and ecologically efficient solutions across applications. We maintain the highest manufacturing and management standards to achieve reliable and effective filtration solutions for our customers. We constantly endeavour to adapt and respond effectively to changing client requirements and industry challenges.

We maintain a state of the art manufacturing standards; all products are manufactured in a cleanroom environment using completely validated processes. Principles of statistical control and determination of process capability are applied to critical variables during manufacturing processes. In the process, controls assure stability of the process. With consistent upgradation of technology and facilities and a talented management team, we strive to provide the best solutions.



AN ISO 9001:2015 CERTIFIED COMPANY

PES

PLEATED FILTER CARTRIDGES

ADG FILTER SCIENCE offer single and dual layer Polyether sulfone (PES) cartridge filters for use with aqueous liquids. Pore sizes range from 0.2 to 1.2 μ and filter sizes scale from laboratory to full production using identical materials to ensure consistent results.

These hydrophilic filters are designed to prevent bioburden contamination and reduce microbials when sterilizing is not required. They are also utilized in clarifying and prefiltering products with high proteins and preservatives. The filter's low binding characteristics make them highly efficient, which is critical to protecting process quality and extending the life of sterilizing filters



Features And Benefits

- Broad chemical compatibility
- Low protein binding
- Good heat-resistance
- Long service life and high flow rates
- With wide pH range filters deliver high flow and throughput.
- No adhesives and resins minimizes contamination
- Filters are flushed to remove manufacturing debris and reduce extractables.
- Products are 100% integrity tested.

APPLICATION:

- SVPs & LVPs
- Diagnostics
- Buffers
- WFI, Water Purification
- Vaccines
- Ophthalmic

MATERIAL OF CONSTRUCTION

Media:	Asymmetric, Hydrophilic PES
Support Media:	Polypropylene / Polyester
Inner and Outer Core:	Polypropylene
End caps:	Polypropylene

TECHNICAL SPECIFICATION

Lengths:	10", 20", 30", 40".
Outside diameter:	Ø 70mm
Typical surface Area:	0.6 m ² per 10" filter
Gaskets/O-rings:	Silicone, nitrile, Fluor elastomer, FEP Encapsulated.
Micron Rating	0.2, 0.45, 0.65, 0.8µ

FUNCTIONAL SPECIFICATION:

Differential Pressure	Forward:80 psid at 68 °F (5.52 bard at 20 °C) Reverse: 50 psid at 68 °F (3.45 bard at 20 °C)
Integrity test-water bubble point at 23°C(73.4°F)	0.22µm ≥ 3450mbar(50psi) 0.45µm ≥ 2060mbar(30 psi)
Forward Flow / Diffusion Value	≤ 30 mL/min at 40 psi per 10" for 0.2µ ≤ 62 mL/min at 25 psi per 10" for 0.45µ
Bacterial Retention	0.22µm ≥ 107CFU/cm ² brevundimonas diminuta (ATCC 19146) 0.45µm ≥ 107CFU/cm ² serratia marcescens(ATCC 14041)
Non-fiber Releasing	Meets the criteria for a "Non-fiber releasing" filter as defines in 21CFR210.3(b) (6)
Sanitization & Sterilization	1. Hot water sanitization - using purified water at 85° C (185 °F) 2. Chemical Sanitization - Performed using industry standard concentrations of hydrogen peroxide, peracetic acid, sodium hypochlorite and other selected chemicals. 3. Inline Steam - 275 °F (135 °C), 30 min, 25 cycles 4. Autoclave* - 250 °F (121 °C), 30 min, 25 cycles
Bacterial Endotoxins	<0.25 EU/ml as determines by the LAL test.
Recommended Changeout Pressure	35 psid (2.41 bard)

PES ORDERING INFORMATION
ADG + MOC + GRADE + MICRON RATING + LENGTH + END CAPS + GASKET
ADG - 1+2+3+4+5+6
EXAMPLE - ADG-HPS-S-2-10-S7-S

TABLE 1- MOC		TABLE 2- GRADE		TABLE 3- MICRON		TABLE 4 -LENGTH		TABLE 5 - CONNECTIONS		TABLE 6- GASKETS	
MATERIAL CODE		CONFIG. CODE		MICRON RATING	μ	LENGTH	LENGTH CODE	CAPS	CAP CODE	GASKET	GASKET CODE
PES	HPS	DUAL LAYER	D	0.1	1	10"	10	226 + FLAT	S6	SILICONE	S
	BPS	SINGLE LAYER	S	0.2	2	20"	20	226 + FIN	S7	EPDM	E
				0.45	4	30"	30	222+FLAT	S3	FLURO - ELASTOMERS	V
				0.65	6	40"	40	222+FIN	S8	NITRILE	B
				0.8	8			INTERNAL O RING	SR	PTFE ENCAPSULATED	T

END CAPS:



ADG FILTER SCIENCE PRIVATE LIMITED

S.NO.338, PLOT NO.7, BALDA, PARDI GIDC, TAL, DIST, Killa-pardi, Gujarat 396125.

Tel: +91 9970043377 | Email: adgfilterscience@gmail.com

www.adgfilterscience.com