

Capsules- Polypropylene Depth Filters



amcChemCap filters are nominally-rated depth filters designed to meet the flow, differential pressure, and retention requirements of a wide range of microfiltration applications. Constructed of all-polypropylene components, **amcChemCap** filters provide broad chemical compatibility. Engineered for high particle loading applications and long filter life, the

filters offer excellent filtrate purity with low extractables and fiber releasing.

amcChemCap filters are available in a variety of pore sizes from 0.2 μm , 0.45 μm , 1 μm , 3 μm , 5 μm , 10 μm , 30 μm , and 60 μm with an effective filtration area of up to 4,000 cm^2 for small (S) to large (L) volume of filtration. There are two upstream vents for complete venting when initiating liquid filtration.

amcChemCap filters offer the efficiency of the *amcPolyproFlow* cartridges in the self contained filtration device, ideal for point-of-use applications and relatively small volume batch filtration.

Performance Advantages

Specifically selected long filament polypropylene fabrics pleated and assembled for extended filter life and high throughput

Provides broad chemical resistance to serve for stringent filtration conditions

Use of thermal welding technology during assembling process to eliminate the potential for extractables to be released from sealing adhesives

Sterilizable and sanitizable by most common methods

Save time and system down time caused by frequent changeouts of string wound or tube filters

Autoclavable for multiple cycles

Typical Applications

Parenterals, ophthalmics, veterinary parenterals and sera, oral and topical medicines, water, toiletries, perfumes and colognes, shampoo, creams, lotions, ointments, mouthwashes, oils, make-up water, serum, blood fractions, tissue culture media, vaccines, liquid growth media, make-up water, fermentation additives

Specifications

Material of Construction

Housing: Polypropylene

Filter Media: Hydrophobic polypropylene non-woven fabric

Filter Support Material and Structural Components: Polypropylene

Sealing Method: Thermal bonding

Vent Plug: Polypropylene

Overall Length (Excluding Inlet/Outlet Adapter):

amcChemCap-S: 6.4 cm (2.5 in)

amcChemCap-M: 11.2 cm (4.4 in)

amcChemCap-L: 16.0 cm (6.3 in)

Diameter

amcChemCap-S: 7.5 cm (3.0 in)

amcChemCap-M: 7.5 cm (3.0 in)

amcChemCap-L: 7.5 cm (3.0 in)

Nominal Pore Sizes

0.2, 0.45, 1, 3, 5, 10, 30, 60 μm

Typical Effective Filtration Area

amcChemCap-S

0.2, 0.45 μm : 800 cm^2

1, 3, 5, 10 μm : 1,000 cm^2

30, 60 μm : 600 cm^2

amcChemCap-M

0.2, 0.45 μm : 1,800 cm^2

1, 3, 5, 10 μm : 2,400 cm^2

30, 60 μm : 1,500 cm^2

amcChemCap

amcChemCap-L

0.2, 0.45 µm:	3,000 cm ²
1, 3, 5, 10 µm:	4,000 cm ²
30, 60 µm:	2,400 cm ²

Maximum Operating Temperature

85°C at 30 psi (2.1 bar)

Sterilization

Autoclave: 30 cycles, 30 minute liquid cycles at 121°C

Maximaum Differential Pressure

Continuous: 60 psi (4.1 bar) at ambient temperature

Momentary: 100 psi (7.0 bar) at ambient temperature

Typical Water Flow Rate

0.2 µm:

amcChemCap-S: 10 lpm/0.1 bar

amcChemCap-M: 15 lpm/0.1 bar

amcChemCap-L: 25 lpm/0.1 bar

0.45 µm:

amcChemCap-S: 10 lpm/0.1 bar

amcChemCap-M: 20 lpm/0.1 bar

amcChemCap-L: 30 lpm/0.1 bar

1 µm:

amcChemCap-S: 15 lpm/0.1 bar

amcChemCap-M: 30 lpm/0.1 bar

amcChemCap-L: 55 lpm/0.1 bar

3 µm:

amcChemCap-S: 10 lpm/0.1 bar

amcChemCap-M: 30 lpm/0.1 bar

amcChemCap-L: 45 lpm/0.1 bar

5 µm:

amcChemCap-S: 15 lpm/0.1 bar

amcChemCap-M: 30 lpm/0.1 bar

amcChemCap-L: 55 lpm/0.1 bar

***amc*ChemCap**

10 µm:

*amc*ChemCap-S: 15 lpm/0.1 bar

*amc*ChemCap-M: 30 lpm/0.1 bar

*amc*ChemCap-L: 55 lpm/0.1 bar

30 µm:

*amc*ChemCap-S: 10 lpm/0.1 bar

*amc*ChemCap-M: 25 lpm/0.1 bar

*amc*ChemCap-L: 40 lpm/0.1 bar

60 µm:

*amc*ChemCap-S: 10 lpm/0.1 bar

*amc*ChemCap-M: 25 lpm/0.1 bar

*amc*ChemCap-L: 40 lpm/0.1 bar

Oxidizables

USP met after 500 mL flush after autoclave

Biosafety

Passes USP Class VI-121°C Plastic Tests

Endotoxicity

< 0.5 EU/mL using Limulus Amoebocyte Lysate (LAL) test

Typical Non-Volatile Residue

*amc*ChemCap-S: <1 mg/device

*amc*ChemCap-M: <2 mg/device

*amc*ChemCap-L: <4 mg/device

Bacterial Retention

*Provided separately

Inlet/Outlet Connections

1/4-1/2 inch stepped hose barb (S)

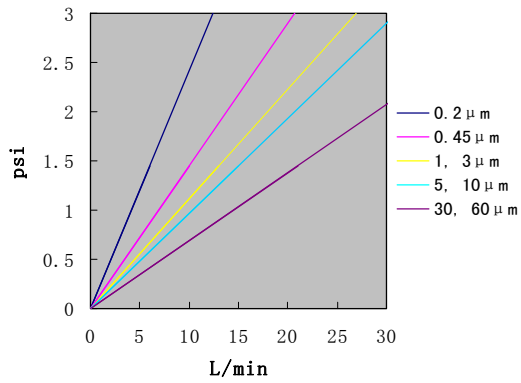
1/2 hose barb (H)

1/2 inch NPTM (T)

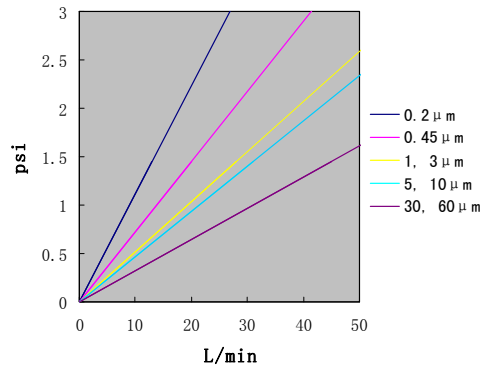
1-1/2 inch sanitary flange (F)

Typical Water Flow Rates (10 inch length) :

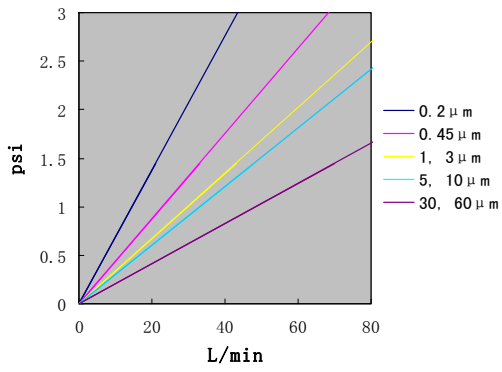
amcChemCap-S



amcChemCap-M



amcChemCap-L



Ordering Information

CHC ■ ■ ● ▼ ▲ ◆

■ Rated Pore Size	92	0.2 µm
	94	0.45 µm
	01	1 µm
	03	3 µm
	05	5 µm
	10	10 µm
	30	30 µm
	60	60 µm
● Length	S	2.5 inch (6.4 cm)
	M	4.4 inch (11.2 cm)
	L	6.3 inch (16.0 cm)
▼ Grade	0	Non-Sterile
	1	Sterile
▲ Inlet Connector	S	1/4-1/2 inch Stepped Hose Barb
	H	1/2 inch Hose Barb
	T	1/2 inch NPTM
	F	1-1/2 inch Sanitary Flange
◆ Outlet Connector	S	1/4-1/2 inch Stepped Hose Barb
	H	1/2 inch Hose Barb
	T	1/2 inch NPTM
	F	1-1/2 inch Sanitary Flange