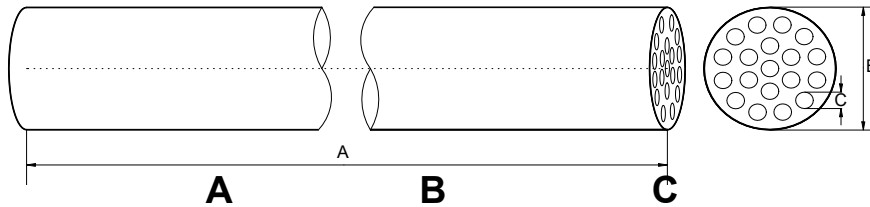


Data sheet

CMF 19040-200nm MICROFILTRATION CERAMIC MEMBRANE ELEMENT

Dimension



Total length	Outside diameter	Channel Diameter	Channel Qty	Gross Weight
1200mm	30mm	4.0mm	19	1.45kg



Detailed description		
Basic data	Pore size	200nm
	Geometry	Multi-channel tubular
	Support material	α -Al ₂ O ₃
	Membrane material	ZrO ₂
	Membrane area	0.29 m ²
Flux data	Pure water flux	700-800 l.m ² .h.bar
	Element water flux	168-192 LPH
	Test Conditions	14 psi (1bar), 86°F (25°C). pure water
Operation & Design data	Typical Operating Pressure	29-116 psi (2-8 bar)
	Maximum Operating Pressure	145 psi (10bar)
	Note: Actual operating pressure is dependent upon system flux rate, as well as feed viscosity, CP and temperature conditions.	
	Maximum Operating Temperature	302°F (150°C)
	Note: Temperature difference is max. ΔT 10°C respective max. 10°C/min	
	Maximum backing pressure	87 psi (6.0 bar)
	Maximum Cleaning Temperature	176°F (80°C)
	Allowable pH - Continuous operation	0-14
	Allowable pH - Clean-In-Place (CIP)	0-14
Solvent stability	Unaffected due to different seals	
Applications	Chemical industry	Brine filtration, Process water, acid and lye filtration, catalyst recovery
	Oil/water separation	Degreasing baths, coolant lubricants, washing water
	Food & beverage industry	Various applications for clarification
	Bio-pharm industry	Fermentation broth clarification of antibiotics

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Cleaning Instructions

To clean ceramic membrane, please only use appropriate membrane cleaners

Please pay attention to the cleaning manufacturer's recommendations regarding concentration, temperature and time.

Chemical agents and cleaning method depend on feed system by experiment. In principle the chemical cleaning process can be divided into three different cleansing stages:

- Cleaning within the acid range
- Cleaning within the alkaline range
- Cleaning within the neutral range

A general cleaning cycle could be as follows:

A.rinse with clean , hot water

B.clean with an alkaline cleaner , the temperature should be 50-60°C
duration 20-30min

C.rinse with clean water

D.clean with an acidic cleaner, the temperature should be 50-60°C
duration 20-30min

E.rinse with clean water until pH is neutral

Note: Keep the permeate pipe outlet closed during cleaning.

Special Instructions

1.It is strictly forbidden to extend hard objects such as metal into the pores of the [membrane element](#).

2.The membrane element should not be knocked or beaten at will to avoid damage to the membrane.

3.When installing and handling the membrane element, try to prevent collision and vibration.

4.Pay attention to temperature differences more than 10 deg.C which will cause membrane element destroy or damage.

5.The service life of membrane element depends on how carefully the membrane is handled and /or cleaned can therefore vary from some days to several years.

6.In case of permanent working under extreme conditions please contact your partner JIUWU HI-TECH .



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