



FFM-M3838-0.1

FFM's Material Separation Microfiltration Membranes designed for food/dairy processing (milk concentration, whey protein), offering multiple feed flow channels and tailored solutions. Features: long-term stability, high cleaning recoverability, pressure resistance, and chemical/temperature tolerance for high-performance separation.

Performance Parameters

Membrane Material:	PES
Structure:	Sanitary Spiral-Wound Mesh Design
Effective Retention Accuracy:	0.1µm
Flow Channel Range:	31/46/62/80 mil
Mesh Support:	Fixed and Adjustable

Product Specifications



Dimensions-inches(mm)		
L	L1	L2
38.0(965)	0.83(21.1)	3.8(96)

Active Membrane Area-ft ² (m ²)					
31 mil	46 mil	62 mil	80 mil	100 mil	135 mil
60(5.6)	49(4.6)	41(3.8)	33(3.1)	/	/

Operation Parameters

Maximum Operating Temperature:	150°F (65.6°C) pH6.0-7.5 140°F (60°C) pH3.5-6.0 131°F (55°C) pH2.0-3.5 and pH7.5-10.0
Recommended Operating Temperature:	41-131°F (5-55°C)
Maximum Operating Pressure:	50.8 psi (0.35 Mpa)
Recommended Operating Pressure:	14.5-36.3psi (0.1-0.25 Mpa)
Cleaning Operating Temperature:	104-122°F (40-50°C)
pH Range,Continuous Operation:	2.0-10.0(25°C)
pH Range, Ceb:	1.8-11.0(25°C)
Design Pressure Drop per Membrane Element:	
Flow Channel 31 mil:	5-15psi (0.03-0.1 Mpa)
Flow Channel 46 mil:	5-20psi (0.03-0.14 Mpa)
Other Channels:	10-20psi (0.07-0.14 Mpa)
Design Pressure Drop per Membrane Housing (3 Elements in Series):	
Flow Channel 31 mil:	15-45psi (0.1-0.31 Mpa)
Flow Channel 46 mil:	15-60psi (0.1-0.41 Mpa)
Other Channels:	30-60psi (0.21-0.41 Mpa)

*For specialized applications or customized solutions, please contact FFM Inc. directly.