

# Crystar FT250 25-31-3

## Crystar® Filtration Technology Technical Datasheet



**Crystar® FT** are highly permeable and pure silicon carbide crossflow membranes for liquid filtration. They are certified for food contact according to the European regulation 1935-2004 and deemed acceptable for food and beverage contact by the FDA. Crystar® FT membranes are characterized by high chemical and thermal stabilities, superior thermomechanical and abrasion resistances and an excellent trade-off between retention efficiency and permeate flux.

**Crystar® FT250 25-31-3** offers fine and consistent retention thanks to a 250 nm membrane and a carrier geometry which fits most applications. The 3 mm channels are well adapted to moderately loaded liquids.

### Examples of application:

- Food and beverage processing
- Oil removal from produced water or oily wastewater
- Bacteria and particulate removal from industrial wastewater
- Chemical/solvent recovery

Technical Data		25-31-3 FT250	
External diameter	mm	25.4	
Standard length <sup>1</sup>	mm	1020 and 1178	
Channel hydraulic diameter	mm	3.0	
Filtration area	m <sup>2</sup> - ft <sup>2</sup>	0.30 – 3.23 0.35 – 3.77	Length 1020 mm Length 1178 mm
Open frontal area <sup>2</sup>	%	51	
Cross-flow velocity recommended	m/s - ft/s	1 to 4 - 3 to 13	
Longitudinal pressure drop at 2 m/s	bar - psi	0.5 – 7.0	
Transmembrane pressure recommended	bar - psi	up to 2 - 29	
Weight	kg - lbs	0.53 - 1.20 0.63 - 1.40	Length 1020 mm Length 1178 mm
Chemical composition	-	SiC >99%	
Membrane pore size <sup>3</sup>	µm	0.25	
Flux with clean water, 20°C / 68°F, 1 bar	LMH - GFD	6000 - 3530	
pH range	pH	0 – 14	
Temperature range	°C - °F	up to 300 - 842	

1. Other lengths possible upon request and up to the limit of 1200 mm.
2. Feed flow rate of 0.9 m<sup>3</sup>/h for inlet cross-flow velocity of 1 m/s.
3. Average pore size as measured by mercury intrusion.

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