ST-II 25 Rotary Membrane System Next generation centrifugal filtration



TiO2 Membranes in Flat Sheet, Disk, "Half Moon," and Coupon

The Power of Stainless Steel

The SpinTek PMM medium combines the best qualities of our PSS sintered stainless steel and Rigimesh sintered, woven-wire-mesh media. The thin wovenwire-mesh support structure is exceptionally strong and the composite is quite ductile. The medium has a smooth surface and excellent uniformity. It is an excellent choice for solid separation and solids recovery applications. In liquid service, this filter medium will function as an exceptionally high-performance septum. Standard material of construction is all 316L Stainless Steel.

Major Advantages and Benefits

The SpinTek PMM medium is capable of very fine removal efficiencies. The ultra thin filter medium stands up to repeated cleaning, thanks to the supporting wire mesh and the strength of it's allstainless steel construction. The SpinTek PMM medium provides efficient cake formation and release for solids recovery applications, while providing a higher surface area than other technologies.

Excellent Chemical Compatibility

The SpinTek PMM medium is resistent to: Acids: Acetic acid - glacial, 10%, 30%; 90%; Hydrochloric acid - conc. (35%), 6N (20%), 1N (3.3%); Nitric acid - conc. (67%), 6N (27%); Sulfuric acid - conc. (96%), 6N (16%) Alcohols: Amyl, Benzyl, Butanol, Ethanol Isopropanol, Methanol

Aromatic Hydrocarbons: Benzene, Toluene, Xylene

Bases: Ammonium hydroxide - 3N (5.7%), 6N (11.4%); Potassium hydroxide - 3N (15%); Sodium hydroxide - 3N (11%), 6N (22%) Esters: Amyl acetate, Butyl acetate, Cellosolve acetate, Ethyl acetate, Isopropyl acetate, Methyl acetate

KEY BENEFITS

- Small footprint allows operation in cramped laboratory environments.
- Very fine removal efficiencies
- Easy to clean
- Thin filter medium
- Excellent chemical resistance
- High shear for increased flow rates, faster test with less fouling
- Accepts a wide variety of membranes
- Affordable, low cost system

• Allows assessment of waste streams previously considered untreatable.

- STC results can be used to assist in designing larger systems cost effectively.
- Single vendor growth path.





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Ethers: Ethyl ether, Tetrahydrofuran, Tetrahydrofuran/water (50/50 v/v) Glycols: Ethylene glycol, Glycerol, Propylene glycol Halogenated Hydrocarbons: Carbon tetrachloride, Chloroform, Ethylene dichloride, Methylene chloride, Tetrachloroethylene Ketones: Acetone, Cyclohexanone, Methyl ethyl ketone, Methyl isobutyl ketone

Miscellaneous: Acetonitrile; Dimethyl formamide; Dimethyl sulfoxide; Formaldehyde - 37%, 4%; Hexane - dry; Kerosene; Pyridine; 8 Megohn water; Cottonseed oil; Peanut oil





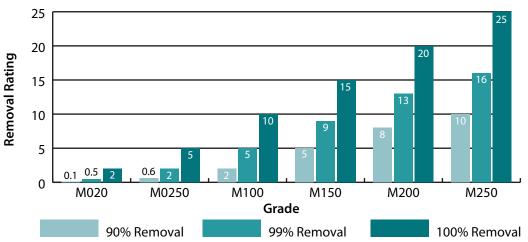


Closeup showing woven wire mesh



Stainless steel support structure

REMOVAL EFFICIENCY



Based on modified F2 efficiency test, removal efficiency by particle count. Weight percent removal data based on AC Fine Test Dust in air. Absolute retention ratings based on actual particle count data.

PMM MEMBRANE SPECIFICATIONS

Grade	Size (in.)	Part Number
M020	11.75X48	PMM, M020, 316L, 11.75X48
M050	11.75X48	PMM, M050, 316L, 11.75X48
M100	11.75X48	PMM, M100, 316L, 11.75X48
M150	11.75X48	PMM, M150, 316L, 11.75X48
M200	11.75X48	PMM, M200, 316L, 11.75X48
M250	11.75X48	PMM, M250, 316L, 11.75X48
M020	16X60	PMM, M020, 316L, 16X60
M050	16X61	PMM, M050, 316L, 16X61
M100	16X62	PMM, M050, 316L, 16X62
M200	16X64	PMM, M200, 316L, 16X64
M250	16X65	PMM, M250, 316L, 16X65
M320	16X66	PMM, M250, 316L, 16X66

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