

FLUORO-SORB® ADSORBENT

GENERAL INSTRUCTIONS FOR LOADING AND CONDITIONING FLUORO-SORB ADSORBENT IN A FILTRATION VESSEL



FLUORO-SORB® 200



FLUORO-SORB® 300



FLUORO-SORB® 400

GENERAL INSTRUCTIONS FOR LOADING AND CONDITIONING IN A FILTRATION VESSEL

FOR FLUORO-SORB 200 ADSORBENT, FLUORO-SORB 300 ADSORBENT, AND FLUORO-SORB 400 ADSORBENT

A distributor or splash plate is required in the top inlet of the vessel. Laterals in the bottom of the vessel are also necessary. The openings in the bottom laterals or screens should be smaller than 0.0165 in (0.42 mm), which is the smallest particle size in media.

The waste stream to be treated must be free of suspended solids; otherwise, FLUORO-SORB adsorbent will be blinded and no treatment will occur. If suspended solids are a problem, a bag or cartridge filter must be placed prior to the vessel.

The vessel should have an air eliminator valve. If not, install one on the vessel or on the inlet pipe as it enters the top of the vessel.

Load the vessel with a minimum of 2 ft (0.6 m) of FLUORO-SORB adsorbent. Leave a minimum of 15% - 20% head space to allow for expansion of media (>30%) during back flush.

Fill the vessel with freshwater and back flush vessel (up-flow) for 30± 2 minutes.

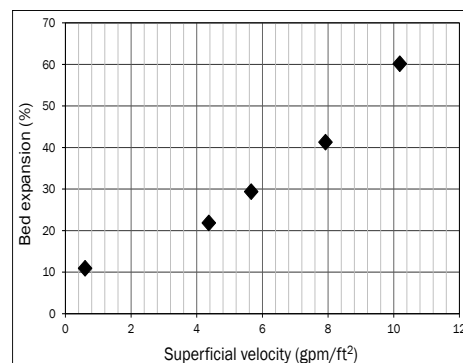
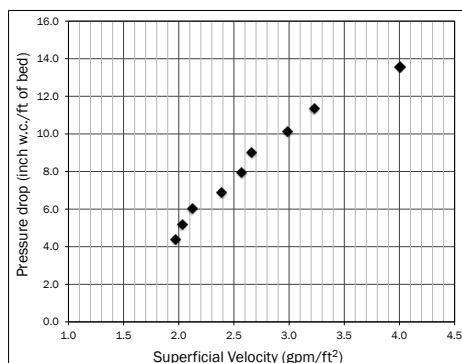
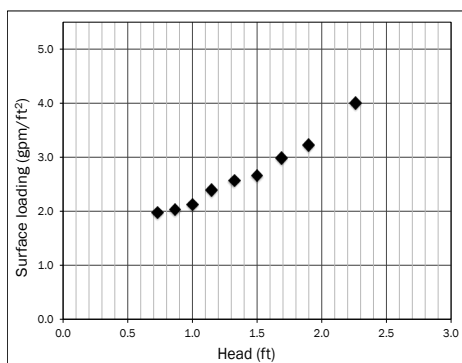
Water should be directed slowly up through the column starting at 1 gpm/ft² (41 Lpm/m²) and gradually increasing flowrate to 9 gpm/ft² (370 Lpm/m²) in the first few minutes to fluidize the media and attain sufficient transport velocities. This step accomplishes three important things:

- Removes fines
- Eliminates entrained air from the bed
- Washes off residual compounds from the manufacturing process

After back flush, do not drain vessel. The vessel is now ready for down flow operation.

OPERATION

Please refer to FLUORO-SORB adsorbent technical data sheets to estimate the pressure drop as a function of superficial velocity. For drinking water applications, please refer to the NSF/ANSI certification for flow through conditions.



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