



U. S. AQUATREAT CO.

SAFF (SUBMERGED FIX FILM) MEDIA



Process application:

The Submerged Aerobic Fixed Film (SAFF) process uses support media to retain an active biomass to reduce the influent BOD Levels. Tubular diffusers are used with the SAFF media giving a good air dispersal and low level of blockage due to growth of biological film.

SAFF reactor is a type of aerobic attached growth treatment process. Small foot print area, stable process, lesser sludge production and modular installations are the key features of SAFF process. Essentially SAFF system is a hybrid reactor where attached growth and suspended growth activity takes place simultaneously.

This technology utilizes an aerobic fixed film process that is a combination submerged attached growth and activated sludge processes.

Construction:

Bio Media are specially fabricated PVC media that aid removal of biological wastes from water. Bio Media are designed to achieve high surface area per given volume resulting in high specific mass transfer.

SAFF Media have folded edges at the top and bottom that provide critical leading to resistance to mechanical damage and erosion. They are continuous formed and have uniform thickness. The SAFF Media have a high surface area. SAFF Media have a long retention time and are minimum blocking. The raw material used is the self-extinguishing PVC.

