Case Study

Lysine Application

The company mainly does agriculture products (corn) further processing business. It provides corn starch, modified starch, L-lysine, Starch sugar, bio-fertilizer and etc. It uses Kaimi technical process from 2012, for separating and purifying Lysine fermentation.

Project Brief

- Project site: Shangdong China
- Treatment capacity: 1500t/d
- Start at: June of 2012
- Model: P1933 (50nm)

Process Brief

- Membrane Qty: 3208 pcs
- Membrane area: 890m²
- Operation pattern: consecutive concentration
- Technical index:
  - Permeate clean/ no SS
  - Light material transmittance ≥60%
  - Microscopy: no bacteria
  - Concentration ratio ≥5
  - Operation Temperature: 60°C–65°C

Overview

Ceramic membrane plant on site
Case Study

Technological Advantages

- High anti-pollution ability, Long service time, Reproducible
- High separation accuracy, Permeate clean&clear, Reduced the follow-up work
- No filter aid in the process, No retain of effective constituent in the fermentation
- High ratio of concentrating, increased the permeate yield
- Recycle the thallus in the fermentation, More economic and environment friendly
- Free to control the concentration ratio
- Regulate transmembrane pressure, Extend the operation time, Increase the output
- Making the producing continuously, Enhanced much production efficiency
- Select the large channel diameter ceramic membrane for end process, Reduce fouling

Ceramic Membrane System

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