



Alumina Powder Desalting Application

In the wet production process of Nano ultrafine powder, Need repetitive scrubbing the ultrafine powder to remove the foreign particle for purification. Ceramic Membrane can totally retain the ultrafine powder but permeate the impurity particles liquor. Repeating this process with adding pure water can make very pure final products.

Alumina gel and Nitric acid can react to make Alumina powder. A Tianjin company uses ceramic membrane to desalting this Alumina powder, extraordinary increased the Alumina powder purity.

Project Brief

- Project site: Tianjin China
- Treatment capacity: 15t/d
- Start at: Jan of 2013
- Modle: P1940 (50nm)

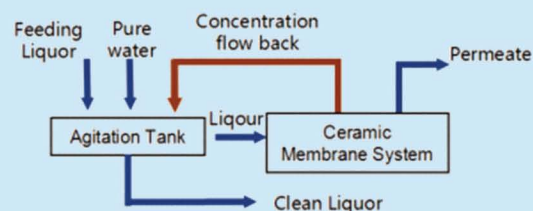
Process Brief

- Memrbane Qty: 148 pcs
- Membrane area: 35m²
- Operation pattern: Batch production
- Technical index:
 - Operation cycle \leq 20hours
 - Concentration density: 16%~20%
 - Flux \geq 250LMH
 - Filtration yield \geq 98%

Overview



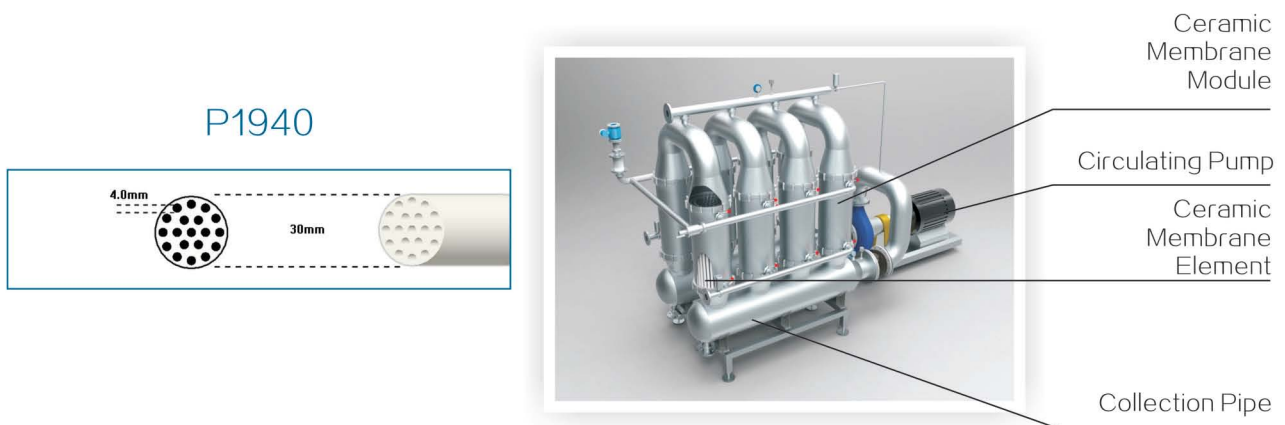
Ceramic membrane plant on site



Technological Advantages

- Less vulnerable part, Easy maintaining
- Save the water and detergent, The water usage is 1/3 of the plate frame cleaning technical
- Increased the output and quality, The purity of the produced powder is more than 99.99%
- Continuously operation, High automation design, Stable quality
- Keep the powder original character, Improve the dispersity
- Easy to add dispersing agent, Control the physical & chemical properties of products surface

Ceramic Membrane System



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