



Overview

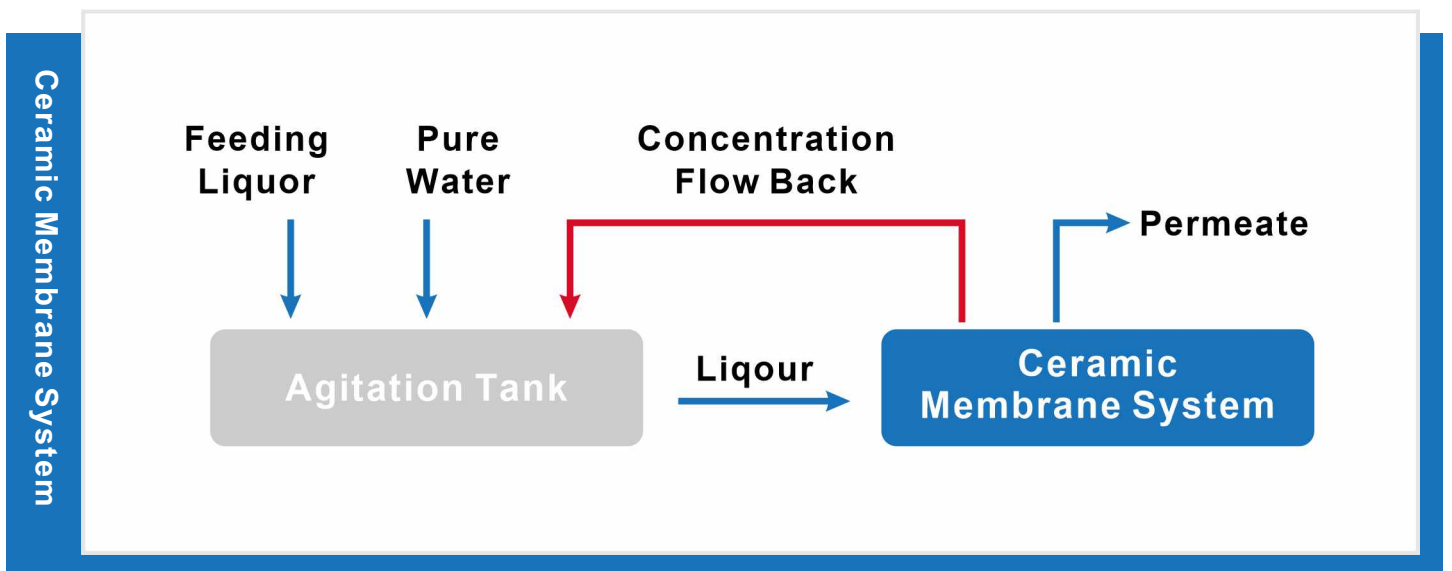
In the wet production process of nano ultrafine powder, the ultrafine powder needs to be scrubbed repetitively in order to remove the foreign particle for purification. Ceramic membranes can totally retain the ultrafine powder and permeate the impurity particles liquor. Repeating this process by adding 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, extraordinarily increases the alumina powder purity.

Project Brief

Project Location	<i>Tianjin, China</i>
Treatment Capacity	<i>15m³/D</i>
Started at	<i>January of 2013</i>
Membrane Model	<i>P1940-N50-1016mm</i>
Membrane Quantity	<i>148pcs</i>
Membrane Area	<i>35m²</i>
Operation Pattern	<i>Batch Production</i>
Technical Index	<i>Operation Cycle ≤ 20hours Concentration Density: 16%~20% Flux ≥ 250LMH Filtration Yield ≥ 98%</i>

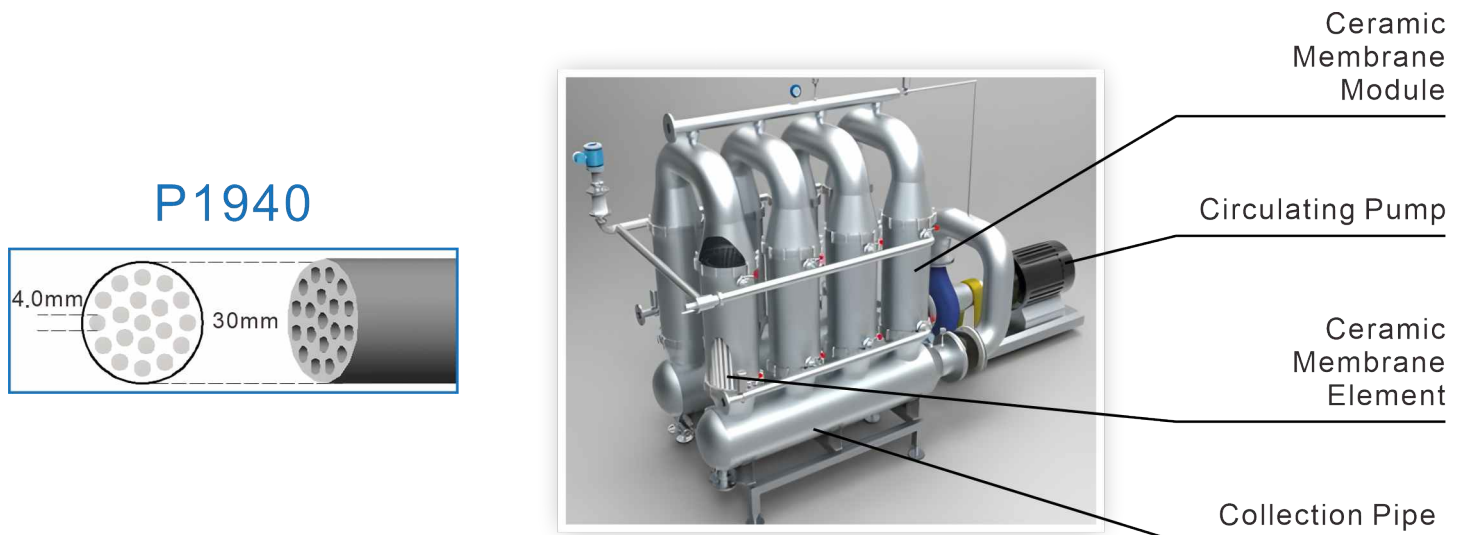
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Process Advantages

- Less vulnerable parts, easy maintaining.
- Save the water and detergent, the water usage is 1/3 of the traditional plate frame.
- Increase the output and quality, the purity of the produced powder is more than 99.99%.
- Continuous 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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