Organic Membrane

Ceramic membrane technology and organic membrane technology can be used in combination. Organic membrane can follow ceramic membrane. We have organic membranes with wide range of pore sizes to different applications, from removing salt to filtering large particulates. JIUWU company can help you design the suitable membrane process.

OVER VIEW OF ORGANIC MEMBRANES
The application of membrane technology is food, dairy, pharmaceutical, biotechnology and starch, and sweetener industries. Cross-flow membrane filtration is the technology of choice for many industrial processes. For example, it can be used in beer membrane filtration. The advantage is that the separation or concentration of products without the application of heat.

Benefits compared with other methods of separation include:

- Accurate separation of multiple streams;
- Reduced risk of damage especially for heat-sensitive products;
- No loss of nutritional value or clinical efficacy
- Reduced energy consumption;
- Reduced waste disposal costs
- Higher yields
- Greater flexibility for new product development

WHAT JIUWU OFFER
1. Spiral Membranes
Spiral membrane is cross-flow membrane filtration, with pore sizes (reverse osmosis, nanofiltration, ultrafiltration, and microfiltration). Spiral membranes have a compact layout and high membrane area per element making them

ideal for high-flow applications with minimal or no suspended solids. They have the advantage of the low component and operating costs.

The applications of spiral membrane include food and dairy separation, electrocoat paint recovery, brackish water treatment, water softening and organics removal. The sanitary spirals are widely used in dairy, food and pharmaceutical industries for clarification, concentration, and purification of valuable ingredients, meeting quality standards without compromising yield. The membrane filtration of milkgreatly improves its quality. In addition, spiral membrane offers the highest packing density and most economical solution.

2. Hollow-Fiber Membranes

We offer a variety of ultrafiltration and microfiltration hollow-fiber products. The operate cost-effectively is low energy for both small and large filtration volumes. Applications of hollow-fiber membrane include municipal water and wastewater treatment, industrial biotechnology, and food and beverage production.

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Membrane type / Content	Ultrafiltration	Nanofiltration	Reverse Osmosis
Module type	Hollow ber Tubular Plate Spiral		
MWCO	0.05um-1KD	0.1KD-1KD	<0.1KD
Operating pressure	0.05-2.7Mpa	0.5-4.2Mpa	1.0-6.9Mpa

Application	Remove suspended solids and reduce SS Remove impurities such as proteins, polysaccharides and pigments Remove bacteria, heat source Reduce COD / BOC Dehydration concentration	Desalting purification Dehydration and concentration Decolorization Solvent recovery	Desalting Dehydration, concentration, enrichment Remove COD/BOD
Case	Enzyme such as phytase Antibiotics such as penicillin Amino acids such as L-phenylalanine Soybean peptide, oligosaccharide, etc. Dairy, juice, etc. MBR: Industrial wastewater treatment MBR Pretreatment for reverse osmosis	Antibiotics such as streptomycin L-lactic acid, vitamins, etc. Fluorescent whitening agent, reactive dye Dairy, oligosaccharides, etc. Chinese medicine, natural product concentration Industrial wastewater treatment Softened water preparation	Preparation of pure water in pharmaceutical factories, food factories Power plant boiler water preparation Electronics factory ultrapure water preparation Traditional Chinese medicine, natural product extraction Antibiotics, amino acids Industrial wastewater treatment Water reuse