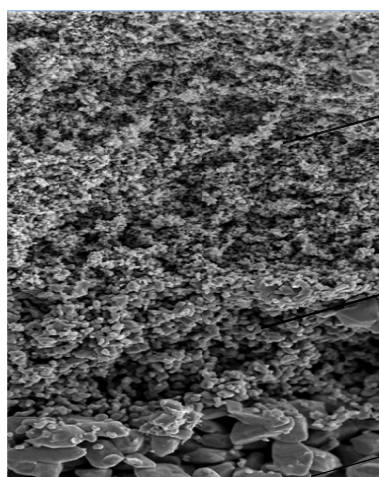


JMtech-SICZ- N200



Separation layer

Filtering layer

Support Layer

This product is an innovative product that breaks the boundary between the application scenarios of inorganic and organic membranes.

1. It combines the advantages of ceramic membrane products' durability and organic membrane products' high packing density.
2. Its usage method is very similar to that of organic membrane columnar membranes. It makes up for the shortcomings of ultra-filtration membrane technology, such as high requirements for influent water quality, high backwash water consumption, and risk of wire breakage.
3. It can improve the water yield of the ultra-filtration membrane system and reduce the cost of chemical cleaning.

Product Features and Advantages

- ★ Better hydrophilicity,
- ★ Higher porosity,
- ★ Excellent cleaning and recovery ability
- ★ Anti-oil pollution
- ★ High mechanical strength with no risk of wire breakage, wear resistance and impact resistance
- ★ Stable water quality during long-term operation;
- ★ High flux;
- ★ Good chemical stability, acid and alkali resistance, strong oxidant resistance, high temperature resistance, organic solvent resistance, cleaning resistance, and easy recovery of flux after cleaning;
- ★ High filtration accuracy (up to 20nm) can effectively remove pollutants such as particles, colloids, microorganisms, and organic matter from water;
- ★ The system has low pre-processing requirements, which reduces the total investment and operating costs of the system;
- ★ Vertical installation, standardized and modular design, simplifying system pipelines;
- ★ Competitive investment costs and excellent life-cycle;
- ★ Compatible with traditional organic membrane ultra-filtration systems

Application Scenarios

- | | |
|-----------------------|--------------------------|
| ◇ Mine water | ◇ NF&UF preprocessing |
| ◇ New energy | ◇ Semiconductor industry |
| ◇ Thermal power plant | ◇ Drinking water |

Name/Type	SIC Column Membrane
Type	JMtech-SICT-N200
Curvature (mm)	≤ 4
Porosity (%)	≥ 45
Range of flaw (μm)	≤ 4
Filtration accuracy (nm)	100 & 40
Core Length (mm)	1500 ± 1
Core Diameter (mm)	190 ± 1
Channel Quantity	1749
Membrane area (m^2)	22.7
Filter layer thickness (μm)	> 50
Pure water flux (L/h bar)	≥ 22000
Energy Assumption when running	0.15 KW/h/t for reference

