

Supratec



Supratec Hollow Fiber Membrane For Water Treatment Applications

Based in Simmern/Hunsrück (Germany), Supratec Membrane GmbH is the membrane division of the Supratec Group, who has more than 40 years of experience in the water and wastewater treatment field. Supratec Group is well-known all over the world for its high efficiency fine bubble diffusers, but now Supratec is well respected as the highest German quality membrane supplier with more than 30 years membrane team experience. Supratec top quality hollow fiber and flat sheet membranes are manufactured with a fully automatic production lines based on Germany Industry 4.0 standard.



Combined with our OEM customers, Supracte Group has more than 5,000 installations in water and wastewater field globally.



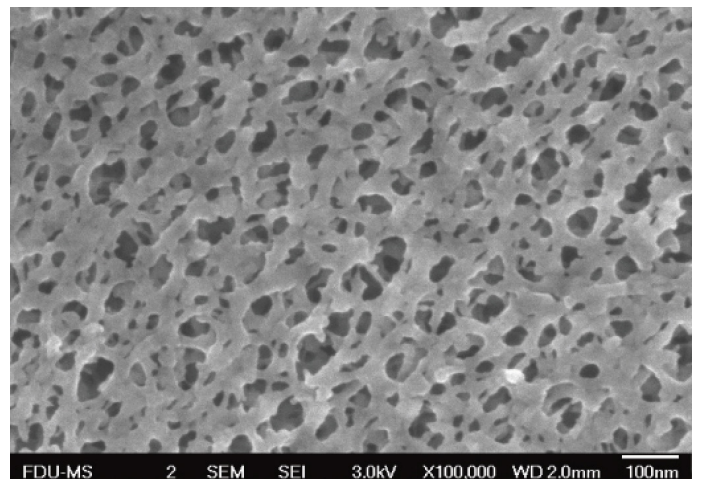
This is one of the most modern membrane-manufacturing plants in the world with an annual membrane capacity larger than 7M m², while Supratec UF cassettes are assembled in EU and Shanghai, China.





Supratec Membrane offers highest-quality ultrafiltration membranes based on PVDF at very competitive prices. Our membranes are characterized by an extremely porous and homogeneous pore structure. These excellent features lead to significant advantages in the operation of UF applications:

- Significantly higher clean water permeability for UF membrane ($> 2000 \text{ LMH/bar}$)
- Consistently high flux rates for UF applications compared to other membranes available in the market
- Reduced energy costs due to higher porosity and lower membrane resistance (UF air scour rate as low as $0.06 \text{ Nm}^3/\text{h/m}^2$)
- Lower investment costs due to a reduction of the required membrane area
- Strongly reduced membrane fouling due to smaller pore sizes and reduced pore blockage as well as associated longer service life of the membrane (up to 10 years)

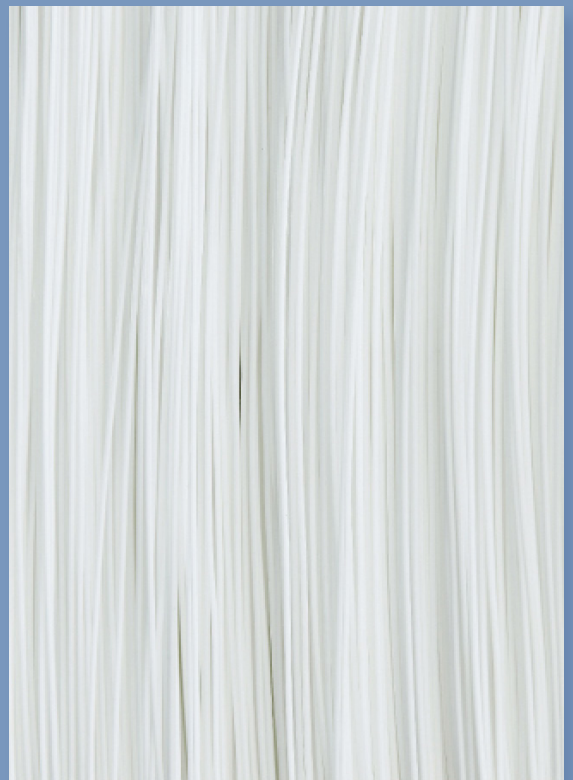


SUPRATEC Hollow Fiber UF



Advantages of Supratec Hollow Fiber UF:

1. True PVDF UF membranes with a nominal uniform pore size of $0.03\ \mu\text{m}$, with 6-log bacteria removal of 99.9999% and 4-log virus removal of 99.99%.
2. High clean water permeability, $> 2,000\ \text{LMH/bar}$ and high flux rate.
3. Reinforced braided HF with tensile strength $> 600\text{N}$, high mechanical strength and unbreakable fiber.
4. Proprietary siphon aerator scouring providing efficient air scouring. Specific aeration demand, ranging from 0.06 to $0.1\ \text{Nm}^3/\text{m}^2\cdot\text{h}$, is the lowest among all other HF competitors (up to 50% energy reduction compared to conventional air scouring).
5. Modular and flexible design with easily expandable and scalable configuration.
6. High packing density resulted in small UF tank (saving in civil tankage cost).
7. Backflushable, up to $+10.0\ \text{m}$ water head.
8. Outstanding chlorine total lifetime exposure ($1,000,000\ \text{ppm}\cdot\text{h}$).



Global PWTP References

(Partial list shown)



Philippines, Capacity 6,500 m³/d (surface water)



China, Capacity 80,000 m³/d (surface water)



Malaysia, Capacity 600 m³/d (ground water)



Philippines, Capacity 10,000 m³/d (surface water)



Malaysia, Capacity 5,000 m³/d (surface water)



China, Capacity 80,000 m³/d (surface water)

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