

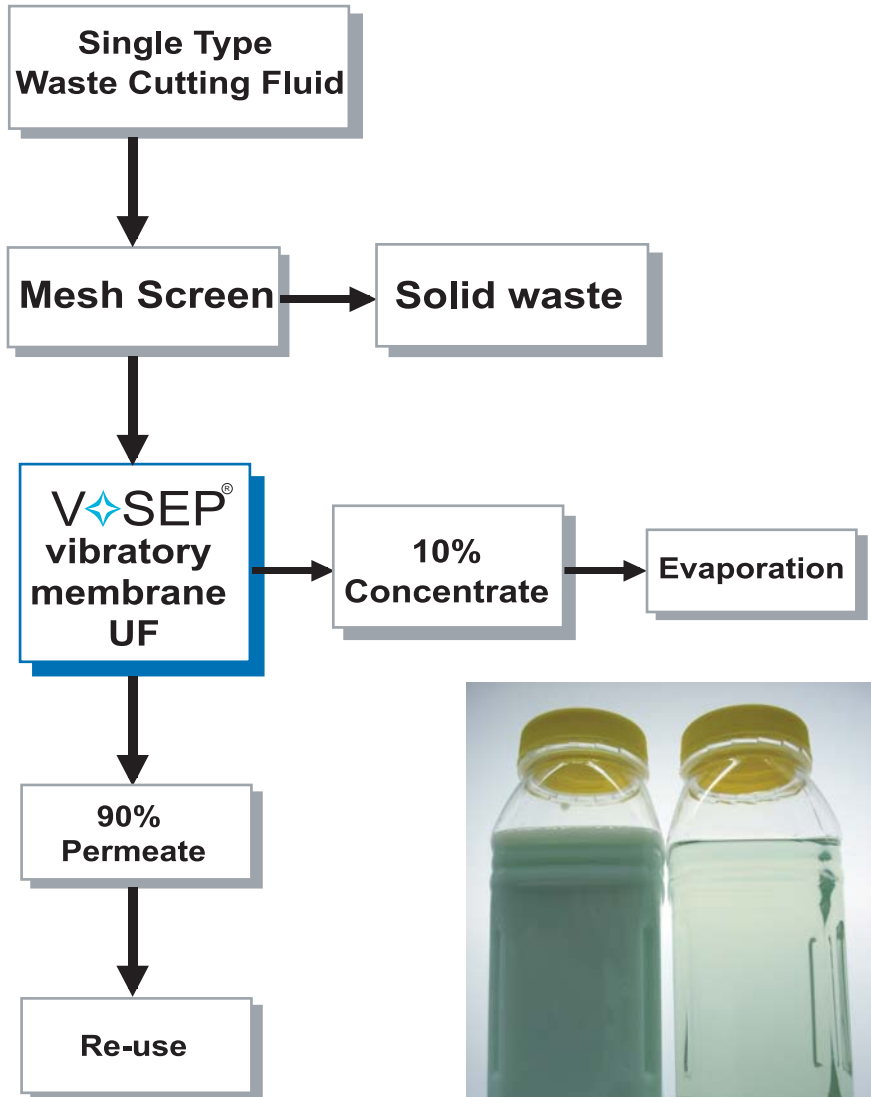
Case

Study

Waste Emulsified Cutting Fluid Recycling

Disposal of emulsified cutting fluid is a very tough environmental pollution. It has high COD and well mixed with water. Intensive treatment to discharge standard is costly. Ultra-filtration (UF) is a feasible solution to recycle the water avoiding discharge. If source and type of cutting fluid is isolated, permeate after UF can be reused as same cutting fluid mixing water.

Conventional membrane treatment faces low flux and sever fouling issues. VSEP vibratory membrane technology has high anti-fouling ability, high recovery ratio, simple operation. Concentrate can be efficiently evaporated. No chemicals is added and water can be recycled.



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VSEP Membrane	Ultra-filtration (UF)		
Feed	Single Type Used Emulsified Cutting Fluid		
Steady Flux	50 GFD or 85 LMH		
Temperature	Room Temp. or 40°C		
Pressure	100psi		
Recovery Rate	90% or above		
Permeate Flow Rate	130L /hr	2200L /hr	5500L/hr
Membrane Area	1.5 m ²	40 m ²	100 m ²