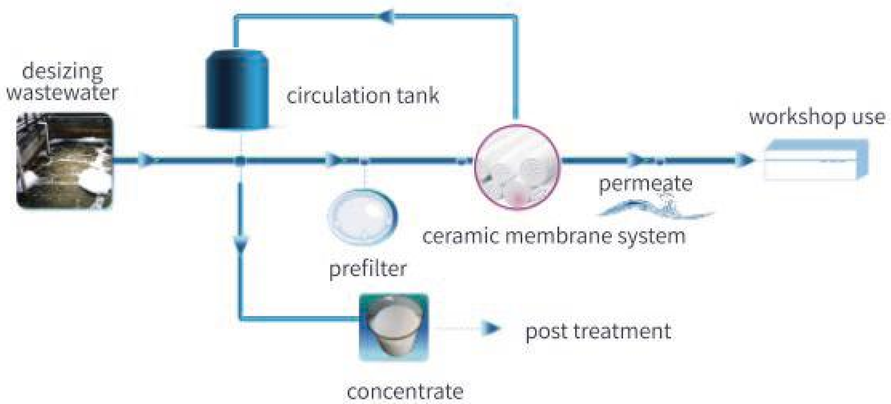
THE FIRST-MOVER OF RESOURCE RECYCLING

ALKALI RECOVERY FROM DESIZING WASTE WATER

FEATURES

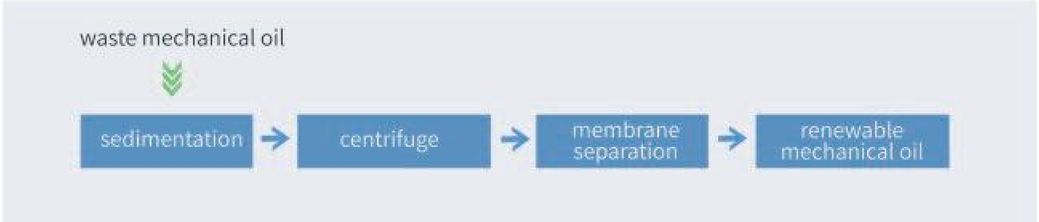
- Water &alkali are fully reused
- Achieve zero liquid discharge
- Advanced membrane technology
- Amount of fresh water & alkali are reduced

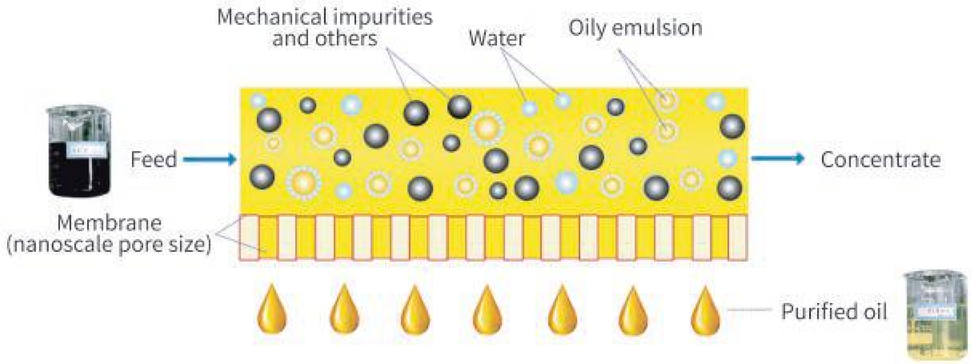


Desizing wastewater treatmet project

WASTE OIL DISPOSAL & RESOURCE UTILIZATION

PROCESS





Location : Huangya district, China

Built factory

Monitoring and Analysis Center

Main equipment

WASTE EMULSION DISPOSAL & RESOURCE UTILIZATION

APPLICATIONS Cooling lubricant from machining, electronics, automobile

ADVANTAGES

Environmentally friendly and clean
without secondary pollution

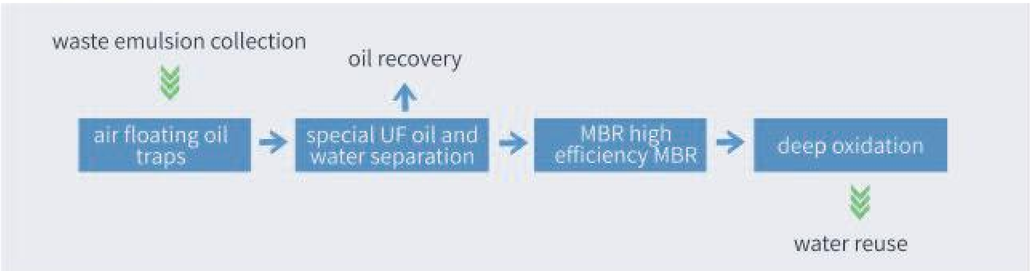
Safety reduction
energy consumption reduced by 70%

Small footprint
68% smaller footprint than traditional processes

Advanced technology
No smoke, no noise, no smell

Resource recycling and clean
Annual treatment of 50,000 m3 waste emulsion, the waste oil content is 2%, and the waste oil recovery and adsorption treatment is recovered and regenerated into 1,000 tons of base oil to realize resource recycling.

PROCESS



Networked collections

Standardized transportation

Closed production

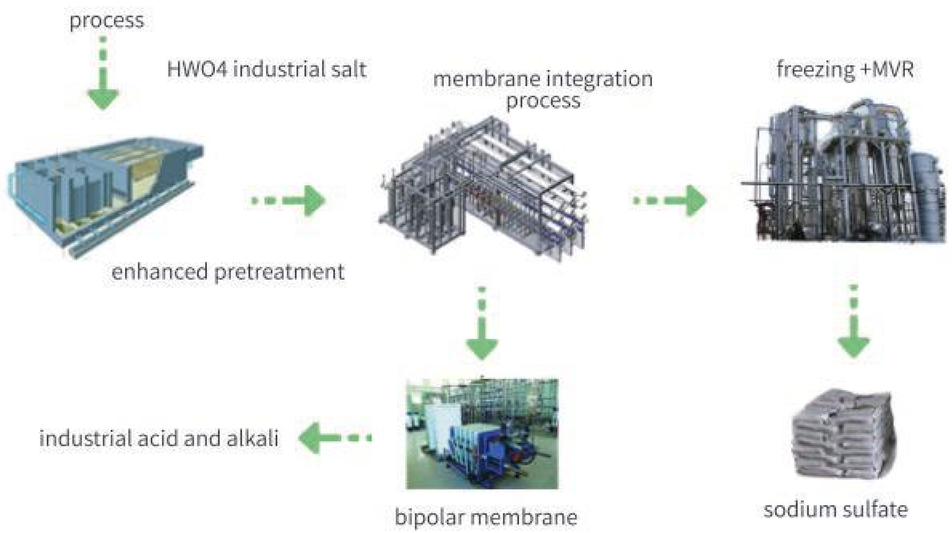
Discharge class A Grade 1

BRINE WASTE DISPOSAL & RESOURCE UTILIZATION

As a byproduct of industry, "brine"is a solution with an extremely high concentration of salts such as sodium chloride,sodium sulfate ,ammonium chloride ,calcium chloride . These byproducts are typically highly concentrated salt solutions that, in some cases, contain more than twice the amount of concentrated salts than natural brine solutions.

Brine waste can be some of the most challenging to treat or discharge because their composition and purification requirements can be rather dynamic and complex.

Combined with various technologies, we have developed a set of technology and equipment that can truly realize the utilization of brine waste and offer custom-designating and manufacturing brine waste solution systems.



TITANIUM DIOXIDE WASTEWATER SOLUTION

PROCESS ADVANTAGES

Stable water quality

The SS is less than 1ppm, the turbidity is less than 0.5NTU, and the effluent water quality is stable

Long work life

Acid and alkali resistant, high temperature resistant and high-pressure resistant, work life is longer than 5 years

High effectiveness

Short separation process, continuous operation, short wash cycle

Save footprint

Membrane process replaces sedimentation tank, footprint is much smaller

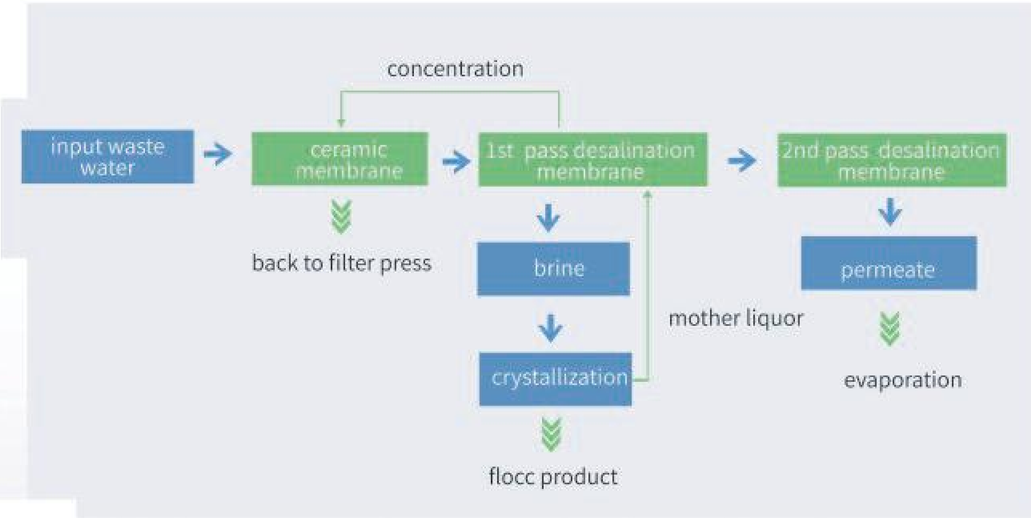
Easy operation

Short process, less control point, auto control

Circular economy

Full recovery of titanium dioxide, product water recycle, chlorination method Titanium white process combined with caustic soda process form the environmental protection industry chain

PROCESS



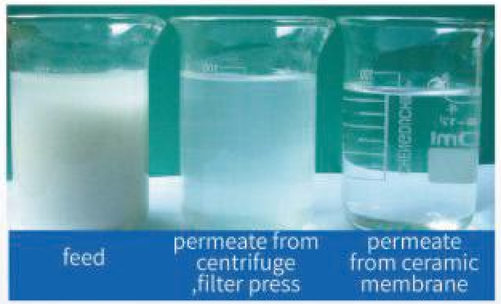
ULTRAFINE POWDER PURIFICATION SOLUTION

NEW ENERGY BATTERIES

The pretreatment workshop of Lithium extraction process adopts the international leading gradient coupling membrane separation technology, and the potassium fluoride from salt pans is subjected to magnesium-lithium separation and lithium concentration process to obtain high-purity lithium-rich brine, and is sent to the lithium plant to produce battery-grade lithium carbonate. The operation of the membrane equipment is fully automatic, the lithium yield can reach 80%, and it is at the leading level in the lithium recovery from brine.

SOLAR ENERGY CLEANER PRODUCTION

Ceramic membrane technology can directly treat the waste liquid containing silicon powder produced in solar energy production process, collect silicon powder, reuse pure water and coolant. The process can separate silicon powder from pure water, recover more than 98% of silicon powder, reuse more than 90% of pure water and 50% of coolant, and greatly reduce the load of sewage station.

NEW MATERIALS PURIFICATION

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