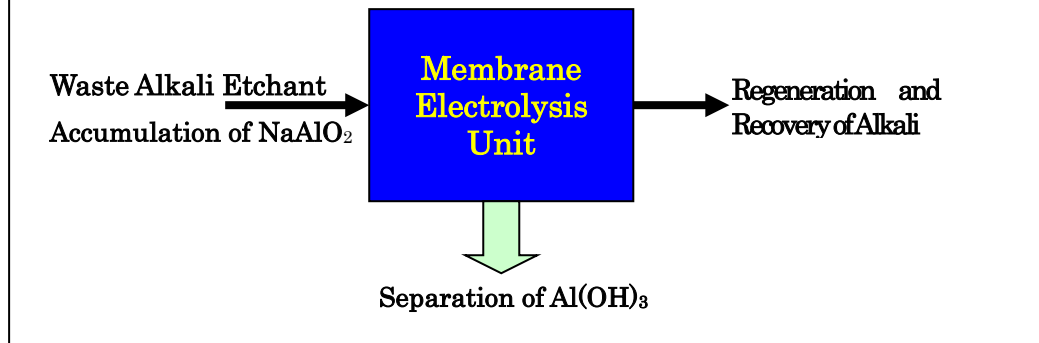


New Alkali Recovery System from Al Etchant

(New Electric Oxidation and Reduction)

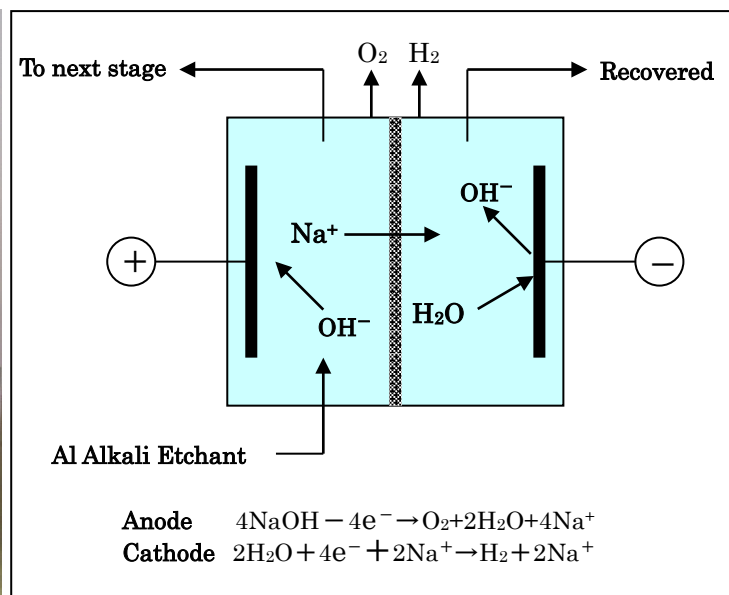
● Schematic Figure of Regeneration of Al Alkali Etchant



Usually alkali etchant contains the additives such as sodium gluconate in order to prevent hydrolysis of sodium aluminate, (NaAlO₂) therefore it's very difficult to recover alkali by conventional Bayer's process. New membrane system is very useful to hydrolyze sodium aluminate, (NaAlO₂) even if the additive contains in the etchant.

Application

1. Regeneration of Al alkali etchant and recovered, concentrated alkali
2. Regeneration of alkali peeling agent and recovered purified, concentrated alkali
3. Regeneration of alkali waste and recovered purified, concentrated alkali
4. Regeneration of alkali waste and recovered purified, concentrated alkali
5. Regeneration of chromate liquor
6. Regeneration of waste liquor



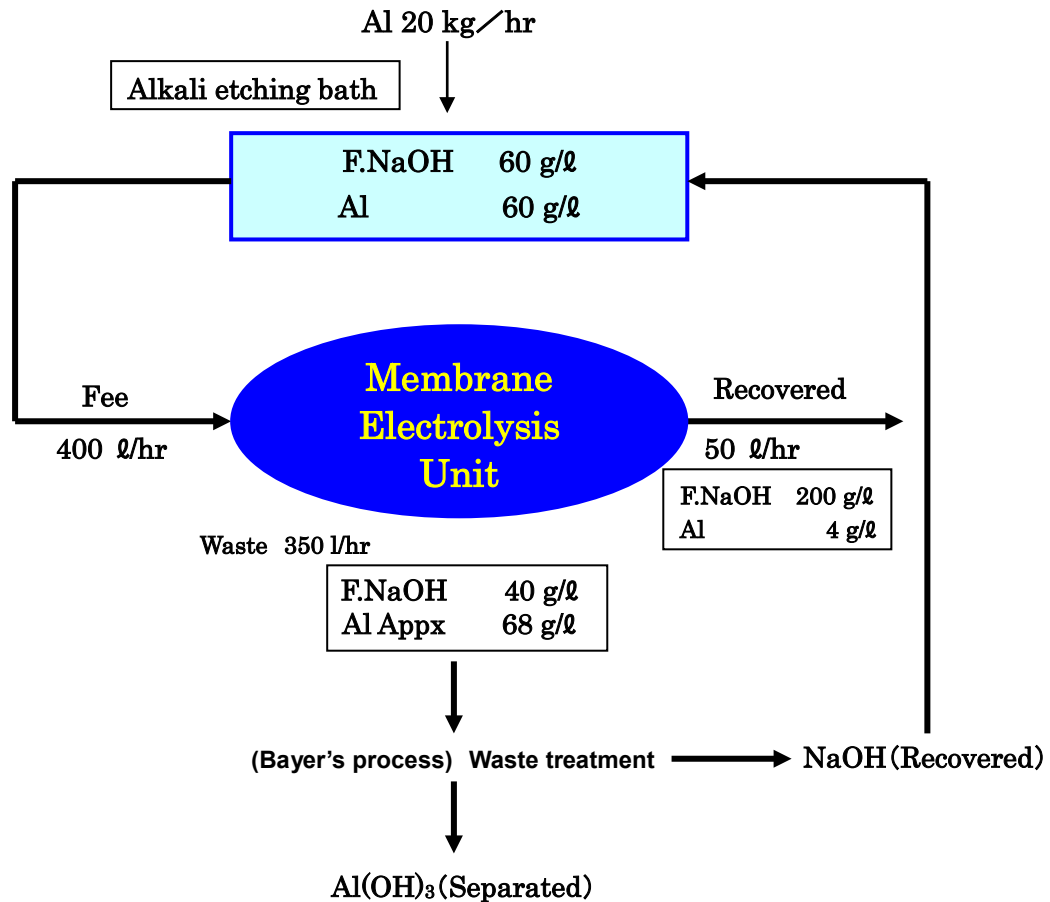
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NOSAKA ELECTRIC CO., LTD

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1. Alkali Recovery from Aluminum Alkali Etchant



This system contributes to not only recovery of Caustic Soda, but also

- (1) Simple and easy operation & maintenance.
- (2) Compact system equipment.
- (3) Economical advantage.
- (4) Quality improvement through removal of Na_2CO_3 contaminated from air.
- (5) Pollution control owing to remarkable reduction of waste liquor.

2 Regeneration of chromate liquor

