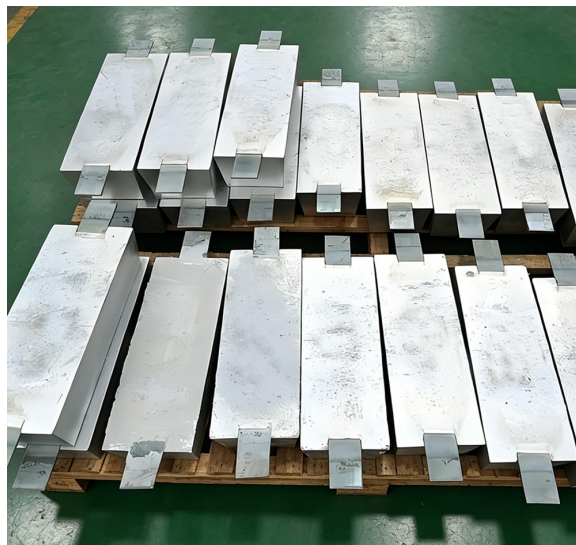


## Zinc Anode for Seawater Cooling Water Systems

Zinc anodes are a type of sacrificial anode material. They utilize the electrochemical property that zinc is more active than iron, preferentially dissolving in an electrolyte environment to protect steel structures from corrosion. The working principle involves forming a galvanic cell, where zinc acts as the anode and releases electrons, making the Protected substrate (the cathode) protected. They are widely used in seawater cooling circulation systems in power plants, petrochemical enterprises, and ships, including components such as condenser water chambers, tube sheets, seawater pipelines, and filter housings. Zinc anodes are well-suited for harsh environments with high chloride ion concentrations and high electrical conductivity, offering stable current efficiency and no risk of overprotection. They can significantly extend equipment maintenance intervals and reduce downtime losses caused by leaks.



### KEY FEATURES

- 1.Moderate driving voltage,not prone to overprotection
- 2.Low self-corrosion, high current efficiency
- 3.Low operation and maintenance cost
- 4.Easy to retrofit / replace
- 5.Good compatibility with coating systems

### APPLICATIONS

- 1.Power plants
- 2.Petrochemical enterprises
- 3.Ships

### PRODUCT SPECIFICATIONS

| Chemical Composition(%) |                 |                  |
|-------------------------|-----------------|------------------|
| Executive Standard      | ASTM-418-type I | ASTM-418-type II |
| Al                      | 0.1-0.5         | ≤0.005           |
| Cd                      | 0.025-0.07      | ≤0.003           |
| Fe                      | ≤0.005          | ≤0.0014          |
| Pb                      | ≤0.006          | ≤0.003           |
| Cu                      | ≤0.005          | ≤0.002           |
| Zn                      | Remainder       | Remainder        |

| Electrochemical Property    |                 |                  |
|-----------------------------|-----------------|------------------|
| Executive Standard          | ASTM-418-type I | ASTM-418-type II |
| Open Potential(-V,vs SCE)   | ≥1.05           | ≥1.10            |
| Closed Potential(-V,vs SCE) | ≥1.0            | ≥1.05            |
| Actual Capacitance(A·h/kg)  | ≥780            | ≥740             |
| Current Efficiency(%)       | ≥95             | ≥90              |