

## Magnesium Anode Rod

Magnesium anode rods protect water heater tanks through the electrochemical principle of sacrificial anode protection. Since magnesium is more reactive than iron (the tank material), it forms a galvanic cell system in water. Magnesium preferentially corrodes and releases electrons, thus preventing oxidation and corrosion of the steel tank. When the porcelain enamel coating inside the tank is damaged, the magnesium rod releases current to form a polarized film, repairing the damaged area.

By sacrificing itself, the magnesium rod reduces scale buildup and maintains heating efficiency. If not replaced for an extended period, accumulated scale will cause the water to take longer to heat up, using more energy.

### KEY FEATURES

- 1.Low cost
- 2.The service life is long
- 3.Corrosion resistance is strong
- 4.Environmental protection

### PRODUCT SPECIFICATIONS

**Magnesium Alloy Components:** magnesium (90% or higher) as the matrix, adding aluminum (2%~6%), zinc (0.5%~3%), and other elements to improve performance

**Electrochemical Property:**

**Open Voltage:** 1.5V~1.75V (vs. SCE)

**Closed Voltage:** 1.4V~1.6V (vs. SCE)

**Actual Capacitance:**  $\geq 1100$  A.h/kg

**Efficiency:**  $\geq 50\%$

**Product Specification:** Dia.:  $\Phi 12 \sim 35$  mm, length :150 ~1300 mm

**Execution Standard:** ASTM B843, ASTM G97

### APPLICATIONS

- 1.Hot Water Heater Tank
- 2.Heater Exchanger & Pipeline system
- 3.Other Water Storage Tanks

