



## Zinc Ribbon Anode

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Zinc Ribbon Anode is consists of galvanized steel wire core, wrapped by extruded high-grade zinc (SHG).

YUXI Anodes manufactures zinc ribbon by an advanced automatic extruder which ensuring the high quality of zinc ribbons while keeping the yearly production capacity of 2,000,000 meters.

All of our zinc ribbon will be processed by special and high-tech physical modification which ensuring high current efficiency and flexibility even in extreme cold weather.

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## APPLICATION

- ▶ Buried pipeline
- ▶ Above-ground storage tanks
- ▶ PCCP pipe
- ▶ Temporary CP system
- ▶ Grounding mats to power towers
- ▶ AC mitigation



## FEATURES

- ▶ High output current to volume ratio
- ▶ High current efficiency > 95%
- ▶ Even distribution of current density due to continuous ribbon formation
- ▶ Self-regulating current output
- ▶ Excellent tensile strength and hardness
- ▶ Easily cut to length
- ▶ Product flexibility ensures installation in Cold weather (-22°F/ -30°C)

## ELECTROCHEMICAL PROPERTIES

| Alloy Standard    | Open Circuit Potential(-V) | Close Circuit Potential(-V) | Current Capacity          | Consumption Rate | Current Efficiency |
|-------------------|----------------------------|-----------------------------|---------------------------|------------------|--------------------|
| ASTM-B418 Type I  | 1.05 Min.                  | 1.00 Min.                   | 354A.h/lbs<br>(780A.h/kg) | 24.8lbs/amp.yr   | 95%                |
| ASTM-B418 Type II | 1.10 Min.                  | 1.05 Min.                   | 335A.h/l<br>(740A.h/kg)   | 26.2lbs/amp.yr   | 90%                |

| Element | ASTMB-418<br>Type I | ASTMB-418<br>Type II |
|---------|---------------------|----------------------|
| Al      | 0.1-0.5%            | 0.005% max.          |
| Cd      | 0.025-0.07%         | 0.003% max.          |
| Fe      | 0.005% max.         | 0.0014% max.         |
| Pb      | 0.006% max.         | 0.003% max.          |
| Cu      | 0.005% max.         | 0.002% max.          |
| Zn      | Remainder           | Remainder            |

## SPECIFICATIONS

| Anode Model          |  |  |  |  |
|----------------------|---|---|--|---|
|                      | YX-ZR-Super   | YX-ZR-Plus  | YX-ZR-Standard   | YX-ZR-Small   |
| Cross Section        | 1" x 1-1/4"<br>(25.40 x 31.75mm)  | 5/8" x 7/8"<br>(15.88 x 22.22mm)  | 1/2" x 9/16"<br>(12.70 x 14.28mm)  | 11/32" x 13/32"<br>(8.73 x 10.32mm)   |
| Unit Weight          | 2.4lbs/ft.<br>(3.570kg/m)   | 1.20lbs/ft.<br>(1.785kg/m)  | 0.60lbs/ft.<br>(0.893kg/m)   | 0.25lbs/ft.<br>(0.372kg/m)  |
| Steel Core Dia.      | 0.185"<br>(4.70mm)  | 0.135"<br>(3.43mm)  | 0.130"<br>(3.30mm)   | 0.115"<br>(2.92mm)  |
| Standard Coil Length | 100ft./30.5m  | 200ft./61m  | 500ft./152m  | 1000ft./305m  |