

Zinc Ribbon

Zinc Ribbon Anode is made from extruded High-Grade Zinc (SHG) 99.995% ingot around a galvanized steel wire core.

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



PRODUCT ADVANTAGES

- 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)



APPLICATIONS

- Buried Pipeline
- Above-ground Storage Tanks
- PCCP Pipe
- Temporary CP system
- Grounding Mats to Power Towers;
- AC Mitigation

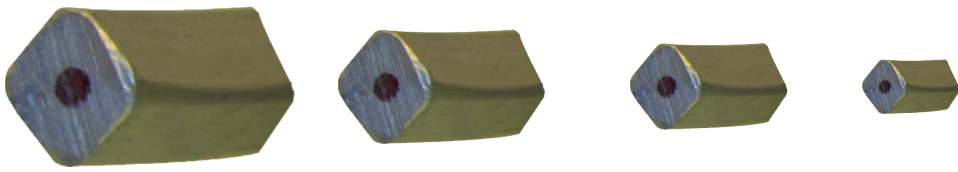
CHEMICAL COMPOSITION

Element	ASTM B - 418 Type I	ASTM B - 418 Type II
Al	0.1 - 0.5%	0.005% max.
Cd	0.02 - 0.07%	0.003% max.
Fe	0.005% max.	0.0014 max.
Pb	0.006 max.	0.002 max.
Cu	0.005 max.	0.001%
Zn	Remainder	Remainder

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 (780A.h/kg)	24.8lbs/amp.yr	95%
ASTM-B418 Type II	1.10 Min.	1.05 Min.	335A.h/l (740.h/kg)	26.2lbs/amp.yr	90%

SPECIFICATION

Anode Model				
	JA - ZR - Super	JA - ZR - Plus	JA - ZR - Standard	JA - ZR - Small
Cross Section	1" × 1-1/4" (25.40 × 31.75 mm)	5/8" × 7/8" (15.88 × 22.22 mm)	1/2" × 9/16" (12.70 × 14.82 mm)	11/32" × 13/32" (8.73 × 10.32 mm)
Unit Weight	2.4lbs/ft. (3.570kg/m)	1.20lbs/ft. (1.785kg/m)	0.60lbs/ft. (0.893kg/m)	0.25lbs/ft. (0.372kg/m)
Dia. of Galvanized Steel Wire Core	0.185" (4.70mm)	0.135" (3.43mm)	0.130" (3.30mm)	0.115" (2.92mm)
Standard Coil Length	100ft. / 30.5m	200ft. / 61m	500ft. / 152m	1000ft. / 305m

- All weights and dimensions are nominal and subject to variation in material compositions and our foundry tolerance.
- Other configurations are available upon special request.

Ordering Information

- Anode Model and Length
- Delivery Address

QUALITY ASSURANCE & TESTING

Jennings Anodes Manufacturing Quality Control Procedures are employed and strictly adhered to guarantee the ultimate performance and life of the anodes. Our internal testing standards, ASTM and NACE Standards are performed to guarantee the quality of the anodes. Every anode is stamped with a serial number for quality tracking and after-sale service.

Testing	Chemical Composition	Electrochemical Properties	Physical Appearance
Standards & Methods	ISO 9001 Quality Management System and Foundry Internal Standards of Zinc Ribbon Anodes		
	ASTM E536	NACE TM0190	NACE SP0387, Foundry ITP
Items	Chemical Analysis	Circuit Potential Current Capacity Current Efficiency	Anode Surface, Cross Section dimension, Tensile, Hardness, Core Eccentricity,
Equipment & Devices	Spectrometer ICP – PL 1000	Electrochemical Analyzer EPI 100, Reference Electrode	Visual Inspection, Microscopes, Calipers, Tap Measure etc.

PACKING

Anode Type	JA - ZR - Super	JA - ZR - Plus	JA - ZR - Standard	JA - ZR - Small
Coil Size	35.0" × 18.0" (880 × 460mm)	25.5" × 16.0" (650 × 410mm)	19.0" × 14.0" (480 × 360mm)	19.0" × 14.0" (480 × 360mm)
Coil Length	100ft. (30.5m)	200ft. (61m)	500ft. (152m)	1000ft. (305m)
Net Weight	240lbs (109kg)	240lbs (109kg)	300lbs (136kg)	250lbs (113.5kg)
Gross Weight	278lbs (126kg)	273lbs (124kg)	326lbs (148kg)	278lbs (126kg)
Number of Coils per 20ft. Container	48	96	96	96

• Custom packing is available upon request.