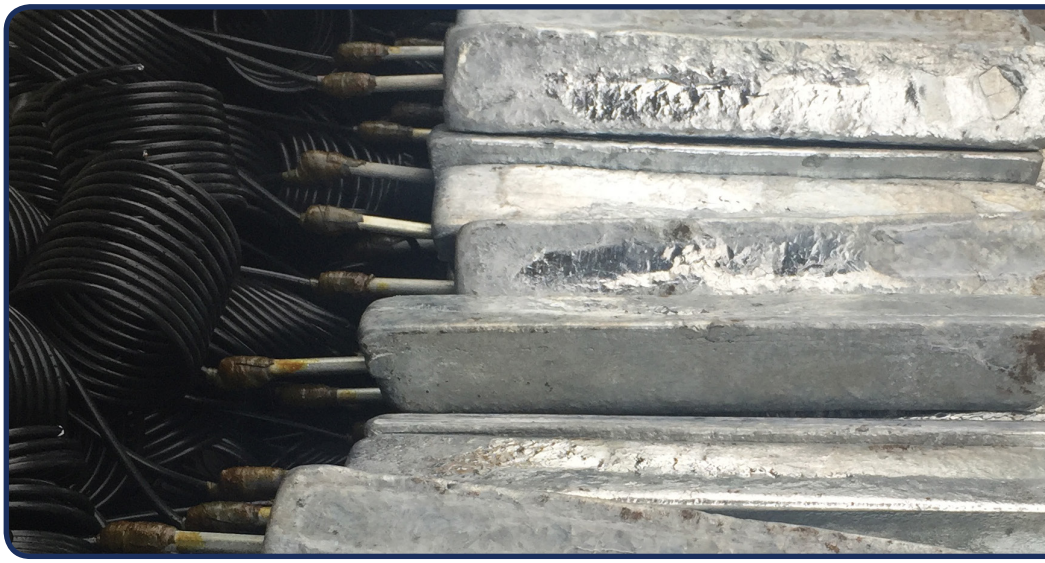
BK CORROSION

HOUSTON • MIDLAND • DENVER



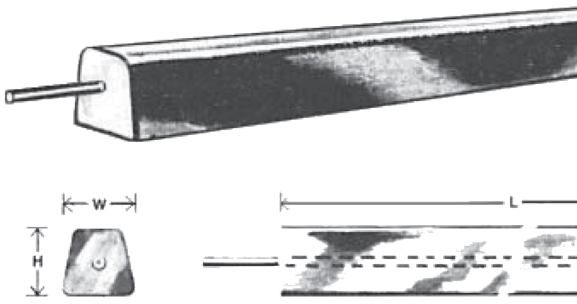
Zinc Soil Anodes can be used in the protection of well-coated distribution and transmission systems for gas oil or water in low resistance soils. Zinc has a high density (446lb/ft$^{3)}$ and are generally smaller with a higher resistance to electrolytes than magnesium or aluminum anodes of the same weight. Zinc anodes are usually applied in low resistivity soils bellow 1000 ohm-cm and in seawater or produced brines. Zinc is excellent for use as electrical grounds. The special 99.9% pure zinc should be used for all soil anode applications.

STANDARD SPECIFICATIONS

- 90% Current Efficiency
- Electrochemical equivalent of 23.5 pounds per ampere year
- Individually inspected, securely crated
- ASTM B-418-95 Type II
- Standard Lead length 10’ of #12 TW Solid; other sizes available upon request.

ALLOY COMPOSITIONS ASTM B-418 TYPE II

ELEMENT	%
Iron (max.)	0.0014
Lead (max.)	0.003
Copper (max.)	0.002
Aluminum (max.)	0.0005
Cadmium (max.)	0.0003
Zinc	Remainder



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STANDARD SIZES AVAILABLE

PRODUCT NO.	WEIGHT (LBS)		ANODE DIMENSIONS				
	BARE	PKG	Width (W)	Height (H)	Length (L)	Diameter (D)	Overall Length (OL)
1.4x1.4x10	5	20	1.4″	1.4″	10″	5″	15″
1.4x1.4x24	12	40	1.4″	1.4″	24″	5″	30″
2x2x15	15	36	2″	2″	15″	6″	21″
1.4x1.4x30	15	50	1.4″	1.4″	30″	5″	36″
1.4x1.4x36	18	55	1.4″	1.4″	36″	5″	42″
1.4x1.4x60	30	86	1.4″	1.4″	60″	5″	66″
2x2x30	30	67	2″	2″	30″	6″	36″
2x2x45	45	100	2″	2″	45″	6″	51″
2x2x60	60	120	2″	2″	60″	6″	66″

BENEFITS

- High current efficiency of 90% compared to ≥50% for magnesium.
- Available in many sizes
- Open circuit potential of -1.1 volts with reference to $Cu/CuSO_4$ half cell.
- Lower potential decreases likeliness for coating damage.
- High purity composition with conjunction of specific 50% Gypsum & 50% Bentonite backfill helps prevent anode from passivation.
- Continues to produce protective currents until used completely.