ECOANODE

TECHNICAL DATA SHEET

ZINC GROUNDING CELL

ECOANODE's zinc grounding cell is a dual-function device engineered to serve as both a sacrificial anode for corrosion protection and a critical component for electrical grounding. Leveraging galvanic electrochemical action, it prioritizes its own corrosion to shield connected steel structures — including pipelines and industrial equipment. This intentional, controlled degradation creates a cathodic protection system that shields the steel from the destructive effects of moisture, soil electrolytes, saltwater, and chemical contaminants, effectively halting rust formation, pitting, and structural weakening. Additionally, it provides a vital safety function by safely bleeding off unwanted voltages and fault currents to the ground. This effectively mitigates the risks of dangerous electrical shock to personnel, prevents arcing, and protects insulated joints from heat damage and burning.

CHEMICAL COMPOSITION

Element Content	ASTM-B418 Type I	ASTM-B418 Type II
Aluminum (Al)	0.1% ~ 0.5%	0.005% max.
Lead (Pb)	0.006% max.	0.003% max.
Iron (Fe)	0.005% max.	0.0014% max.
Copper (Cu)	0.005% max.	0.002% max.
Cadmium (Cd)	0.025% ~ 0.07%	0.003% max.
Other Impurities	0.1% max.	0.1% max.
Zinc (Zn)	Remainder	Remainder



ELECTROCHEMICAL PROPERTIES

Technical Measurement	ASTM-B418 Type I	ASTM-B418 Type II
Open Circuit Voltage (min.)	-1.05 Volts	-1.1 Volts
Closed Circuit Voltage (min.)	-1 Volts	-1.05 Volts
Current Capacity	780 A.h/kg (354 A.h/lbs)	740 A.h/kg (335 A.h/lbs)
Current Efficiency (min.)	95%	90%
Consumption Rate	11.2 kg/A.y (24.8 lbs/A.y)	11.9 kg/A.y (26.2 lbs/A.y)

ECOANODE SOLUTIONS SDN. BHD

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SPECIFICATIONS



Model	Anode Dimensions (WxHxL)	Anode Weight	Packaged Dimensions	Packaged Weight
EA-BZC-D1	35x35x1524 mm (1.4”x1.4”x60”)	27.2 kg (60 lbs)	Φ140x1650 mm (Φ5.5" x 65")	53 kg (116.8 lbs)
EA-BZC-D2	51x51x1524 mm (2”x2”x60”)	54.6 kg (120 lbs)	Φ175x1650 mm (Φ6.9" x 65")	92 kg (202.8 lbs)

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