ECOANODE

TECHNICAL DATA SHEET

DRIVE-IN MAGNESIUM ANODE ROD WITH LEAD WIRE & CLAMP

Engineered for economical installation, ECOANODE's drive-in magnesium anode rods offer a highly cost-efficient cathodic protection solution for low-current, distributed applications. These anodes are specifically designed to be driven directly into the ground, featuring a robust, tapered, and hardened steel core tip that effortlessly penetrates densely packed, rocky, or even seasonally frozen soil without the need for pre-drilling or extensive excavation. This innovative design significantly minimizes labor time, equipment requirements, and overall project costs.

These anodes are an ideal choice for the targeted corrosion mitigation of deeply buried assets, including utility pipelines, municipal water tanks, and other critical infrastructure components, providing reliable, localized protection with minimal site disruption.

CHEMICAL COMPOSITION

Element Content	Standard Potential (H-1)	High Potential (HP)
Aluminum (Al)	5.3% ~ 6.7%	0.01% max.
Manganese (Mn)	0.15% ~ 0.7%	0.5% ~ 1.3%
Zinc (Zn)	2.5% ~ 3.5%	—
Silicon (Si)	0.1% max.	0.05% max.
Copper (Cu)	0.02% max.	0.02% max.
Iron (Fe)	0.03% max.	0.03% max.
Nickel (Ni)	0.002% max.	0.001% max.
Single Impurity	0.05% max.	0.05% max.
Other Impurities	0.3% max.	0.3% max.
Magnesium (Mg)	Remainder	Remainder



ELECTROCHEMICAL PROPERTIES

Technical Measurement	Standard Potential (H-1)	High Potential (HP)
Open Circuit Voltage	1.50 ~ 1.55 Volts	1.70 ~ 1.75 Volts
Closed Circuit Voltage	1.45 ~ 1.50 Volts	1.58 ~ 1.62 Volts
Current Capacity	1230 A.h/kg (550 A.h/lbs)	1100 A.h/kg (500 A.h/lbs)
Current Efficiency	55% min.	50% min.

ECOANODE SOLUTIONS SDN. BHD

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SPECIFICATIONS



Model	Diameter	Length	Weight
EA-MG-DR0.5	21.5 mm (0.84”)	305 mm (12”)	0.23 kg (0.5 lbs)
EA-MG-DR1.0	33.5 mm (1.32”)	305 mm (12”)	0.46 kg (1.0 lbs)
EA-MG-DR1.5	33.5 mm (1.32”)	458 mm (18”)	0.69 kg (1.5 lbs)

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