



# DRIVE-IN MAGNESIUM ANODES

PRODUCT DATA SHEET

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This drive-in anode is a high-purity extruded magnesium rod with a steel core, which has a machined "spike" or "45-degree angle cut" end for easy penetration through the soil.

An adjustable stainless steel hose clamp with set screw is included to allow easy attachment of the anode to the protected structure. The anode is fitted with a steel hexagonal head and threaded UHMW polyethylene driving cap. Thus, the lead wire and soldered connection are protected during installation.

Our magnesium drive-in anode is used for the cathodic protection of gas service entrance piping or gas distribution risers, as termination of tracer wire in the utilities industry and other specialty applications.

## CHEMICAL COMPOSITION

Our anode is manufactured from 99% pure magnesium, according to ASTM B843-M1C standard.

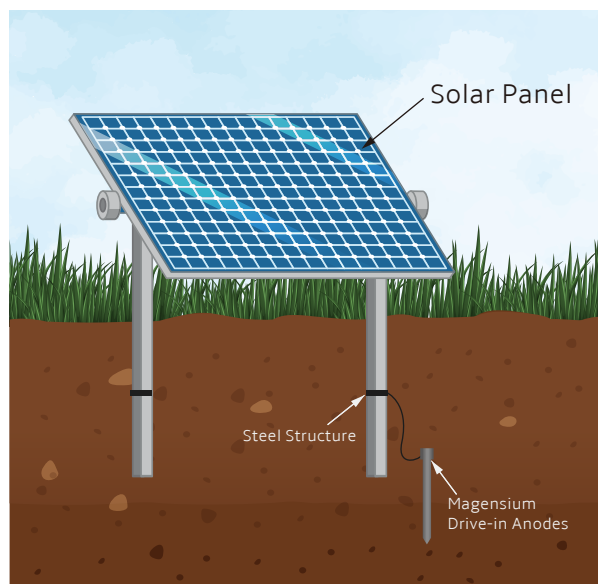
Element		Content (%)
Aluminum	(Al)	0.010 max.
Manganese	(Mn)	0.500 ~ 1.300
Zinc	(Zn)	—
Silicon	(Si)	0.050 max.
Copper	(Cu)	0.020 max.
Iron	(Fe)	0.030 max.
Nickel	(Ni)	0.001 max.
Single Impurity	(Each)	0.050 max.
Other Impurities	(Total)	0.300 max.
Magnesium	(Mg)	Remainder

## ELECTROCHEMICAL PROPERTIES

Depending upon soil conditions, the life expectancy of this drive-in anode ranges from 7 to 10 years.

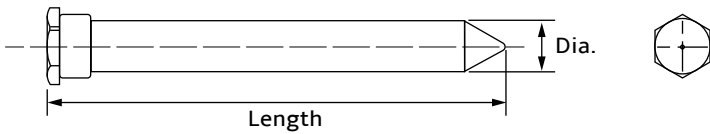
Technical Measurement	Performance
Open Circuit Voltage	1.70 ~ 1.75 Volts
Closed Circuit Voltage	1.58 ~ 1.62 Volts
Current Capacity	1100 A.h/kg (500 A.h/lbs)
Current Efficiency	50% min.

\* The open/closed circuit voltage is with respect to a saturated calomel electrode.



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SPECIFICATIONS



Item No.	Weight	Diameter	Length
YX-MG-DR0.5	0.23kg (0.5 lbs)	21.5mm (0.84")	305mm (12")
YX-MG-DR1.0	0.46kg (1.0 lbs)	33.5mm (1.32")	305mm (12")
YX-MG-DR1.5	0.69kg (1.5 lbs)	33.5mm (1.32")	458mm (18")

Note: All dimensions and weights shown above are nominal. The information provided is subject to change without notice.





## Industrial Corrosion Control Solutions Provider

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