

MAGNESIUM ANODES

Corrpro® H-1 Alloy Cast Magnesium Anodes

Supplying Cost Effective Protection

The soil conditions surrounding a buried structure often determine the type of anodes employed in a cathodic protection system. In low-resistivity soil under 2,000 ohm-cm, Corrpro's H-1 line of magnesium anodes are an economical choice. Corrpro H-1 anodes are cast to meet American Society for Testing Materials Standard B843. This unique composition allows for even-current output and efficient protection.

Special procedures are also employed in the production of the Certified H-1 anodes to ensure long-life performance. Lead wires on all anodes are silver soldered and then potted with a sealant to prevent the intrusion of moisture.

Chemical Composition	
Content %	
Element	Grade A
Al	5.3 - 6.7
Mn	0.15 min
Zn	2.5 - 3.5
Si	0.10 max
Cu	0.02 max
Ni	0.002 max
Other	0.30 max
Magnesium	Balance

Ordering Procedure

To order the required anode for your structure, indicate that you need alloy anodes and specify the quantity desired, the anode type, and whether they should be packaged or bare. All H-1 anodes are shipped standard in with 10 ft - #12 solid TW lead wire unless otherwise specified. Standard backfill composition consists of 75% gypsum, 20% bentonite, and 5% sodium sulphate. An example is provided to illustrate this process.

Ordering Procedure Example	
Quantity	200
Anode Material	H-1 Magnesium
Anode Type	17S4
Packaging Bare or Packaged	Packaged
Wire: Length 10 ft = Standard	10 ft
Size #12 Solid = Standard	#12 AWG
Insulation TW = Standard	TW

Applications

H-1 anodes are recommended for use in low-resistivity soils typically below 2,000 ohm-cm. Because the anodes have a lower driving voltage than high-potential anodes, they are ideally suited for structures where over protection is of concern. Their lower-current output also allows these anodes to operate longer than their high potential counterparts in more conductive environments.

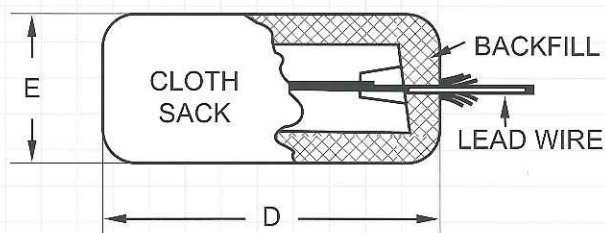
Standard Dimensions and Shipping Weights

Anode Type	Nominal Dimensions										Nominal Weight*			
	"A"		"B"		"C"		"D"		"E"		BARE		PKGD.	
	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg
1 cup	2.9	74	-	-	3	76	6	152	6	152	1	0.45	3.5	1.6
3S3	3	76	3	76	4.5	114	6.5	165	6	152	3	1.4	9	4.1
5S3	3	76	3	76	7.5	191	13.5	343	6	152	5	2.3	14	6.4
9S3	3	76	3	76	13.5	343	17	432	6	152	9	4.1	24	10.9
17S4	4	102	4	102	17	432	19	483	6.5	165	17	7.7	42	19.1
32S5	5	127	5	127	21	533	30	762	8	203	32	14.5	70	31.8
50R8	8	203	-	-	15	381	18	457	10	254	50	22.7	110	49.9

* Nominal weight tolerance is +/- 10%



H-1 Alloy
Cast Magnesium
Anodes



PACKAGED ANODE

