Sacrificial Anode Cathodic Protection (SACP)

Magnesium (H1 Alloy) Anode

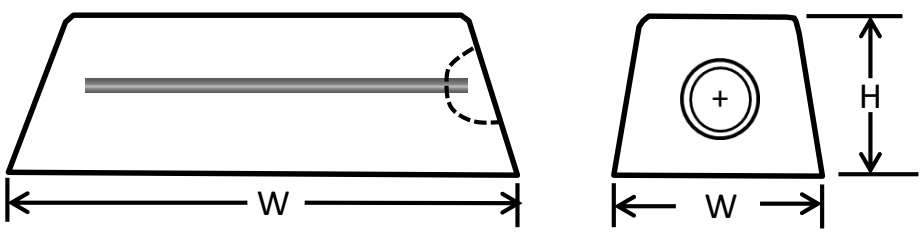
H-1 Magnesium Anode in the highest standard in the industry under a strict QC program. Chemical analysis and potential tests are performed on every heat. The data is available upon request.

In addition, an analysis report tested by ASTM G97 “Standard Test Method for Laboratory Evaluation of Magnesium Sacrificial Anode Test Specimens for Underground Applications” is available, conducted by an independent laboratory upon request.

Standard Sizes

Type	Nominal Weight				Anode Dimensions									
	Bare		Packaged		Width (W)		Height (H)		Length (L)		Diameter (D)		Overall Length (OL)	
	Kg	Lbs	Kg	Lbs	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.
MG3	1.4	3	3.6	8	76	3	76	3	127	5	133	5.22	203	8.0
MG5	2.3	5	5.9	13	76	3	76	3	229	8	133	5.22	286	11.15
MG9	4.1	9	12.2	27	76	3	76	3	336	14	133	5.25	508	20
MG12	5.4	12	14.5	32	102	4	102	4	305	12	191	7.5	457	18
MG17	7.7	17	29.4	45	102	4	102	4	432	17	191	7.5	610	24
MG32	14.5	32	30.8	68	127	5	127	5	521	20.5	216	8.5	711	28
MG50	22.7	50	45.4	100	178	7	178	7	406	16	254	10	610	24

Note: Other shapes, sizes and weights available on request.



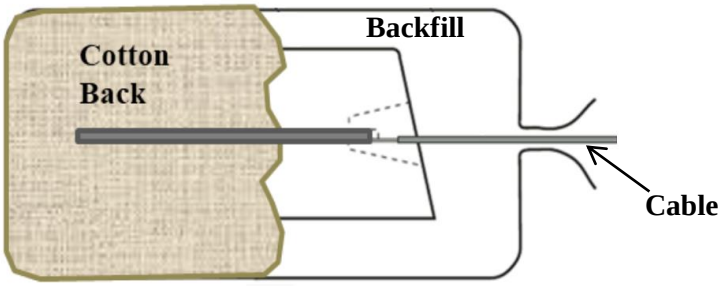
Bare Anode

SACRIFICIAL ANODE (SOIL)

Magnesium (H1 Alloy) Anode

Electrochemical Properties

Open Circuit Potential (CSE)	Close Circuit Potential (CSE)	Electrical Capacity Amp-Hr/Kg (Amp-Hr/lb)	Efficiency (%)
< -1.50 V	< -1.45 V	Min. 1,100 (500)	Min. 50



Backfill: 75% hydrated gypsum, 20% bentonite, and 5% sodium sulfate

Packaged Anode

Chemical Compositions (%) - ASTM AZ63

	Al	Zn	Mn (Min.)	Fe (Max)	Ni (Max)	Cu (Max)	Si (Max)	Other (Max)	Mg
Grade A	5.3 – 6.7	2.5 – 3.5	0.15	0.003	0.002	0.02	0.10	0.30	Balance
Grade B	5.3 – 6.7	2.5 – 3.5	0.15	0.003	0.003	0.05	0.30	0.30	Balance
Grade C	5.0 – 7.0	2.0 – 4.0	0.10	0.003	0.003	0.10	0.30	0.30	Balance

ASTM G97 Standard Test Method for Laboratory Evaluation of Magnesium Sacrificial Anode Test Specimens for Underground Applications