

High Potential Magnesium Anode



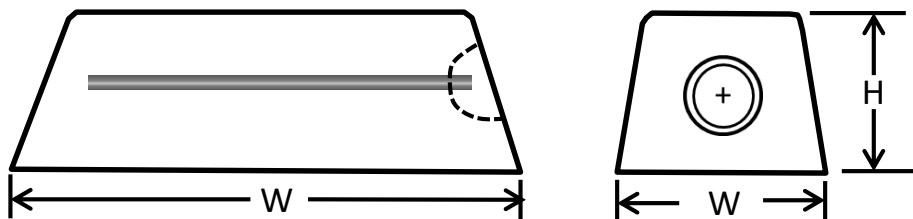
High Potential Magnesium Anode in the highest standard in the industry under a strict QC program. Chemical analysis and potential tests are performed on every heat. The data is available upon request.

In addition, an analysis report tested by ASTM G97 “Standard Test Method for Laboratory Evaluation of Magnesium Sacrificial Anode Test Specimens for Underground Applications” will be 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.
3D3	1.4	3	3.6	8	89	3.5	95	3.75	127	5.0	152	6.0	254	10.0
5D3	2.3	5	7.7	17	89	3.5	95	3.75	216	8.5	152	6.0	305	12.0
9D3	4.1	9	12.2	27	89	3.5	95	3.75	356	14.0	152	6.0	432	17.0
17D3	7.7	17	20.4	45	89	3.5	95	3.75	654	25.75	191	7.5	864	34.0
20D2	9.1	20	31.8	70	70	2.75	76	3.0	1518	59.75	127	5.0	1676	66.0
32D3	14.5	32	31.8	70	140	5.5	127	5.0	521	20.5	203	8.0	711	28.0
32D5	14.5	32	41.3	91	89	3.5	95	3.75	1149	45.25	165	6.5	1346	53.0
40D3	18.1	40	43.5	96	89	3.5	95	3.75	1518	59.75	165	6.5	1676	66.0
40D5	21.8	48	45.4	100	140	5.5	146	5.75	787	31.0	203	8.0	965	38.0
4 x 4 x 60	27.2	60	56.7	125	102	4.0	102	4.0	1524	60.0	178	7.0	1626	64.0

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



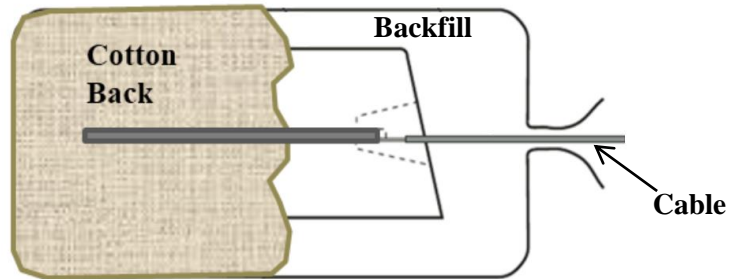
Bare Anode

High Potential Magnesium Anode



Electrochemical Properties

Open Circuit Potential (CSE)	Close Circuit Potential (CSE)	Electrical Capacity Amp-Hr/Kg (Amp-Hr/Lb)	Efficiency (%)
<- 1.70 V	< -1.50 V	Min. 1,100 (500)	Min. 50



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

Packaged Anode

Chemical Compositions (%) - ASTM AZ63

Al	Mn	Cu (Max)	Ni (Max)	Fe (Max)	Other (Max)	Mg
0.01	0.5 –1.3	0.02	0.001	0.03	0.30	Balance



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