



Magnesium[™] Soil Anodes



High Potential Magnesium

SuperMag High Potential Magnesium Anodes from Galvotec Alloys, Inc. offers typical high workingldriving potentials of -1.70 volts or better vs. copperIcopper sulfate reference electrode, providing more current output per pound than AZ- 63 alloy magnesium anodes. This alloy is the best choice for engineered systems in high resistivity soils.



Laboratory- Testing

Our modern laboratory is equipped with the best state of the art equipment available. Our technicians and inspectors are well trained and experienced. A Chemical Analysis is provided for every heat. Each heat is analyzed throughout production to insure consistency. Electrochemical testing is performed routinely on randomly selected heats as a quality assurance procedure, utilizing the ASTM-G-97 test method.





Production - Quality Control

Our production facilities offer the best possible working environment available in the industry. Our personnel are experienced in all phases of the foundry operation. Quality Control in our foundry begins on the foundry floor, where the first line of inspection is the casting and molding crew, our lab technicians, inspectors and managers completes the quality team. Our quality control staff carefully monitors raw material, core materials, packaging and all aspects of production. Laboratory and field investigations prove that Galvotec SuperMag anodes perform consistently.

Packaging- Availability

Anodes are supplied in backfill to meet the customers' specifications. The typical backfill material consists of 75% gypsum, 20% bentonite and 5% sodium sulfate. Standard sizes and shapes are warehoused. Anodes are available packaged and unpackaged with or without leads as per customers' specifications.



Magnesium SuperMAG™ High Potential Anodes



Galvotec Alloys produces High Potential anodes under our trademark SuperMAG[™]. Chemical analysis and potential tests are performed on every heat.

PRODUCT	MODEL	Weight				Anode Dimensions									
NO.	NO.												Ove	erall	
		BARE		PKDG.		Width (W)		Height (H)		Length (L)	Diam	Diameter (D)		Length (OL)	
		lbs	kg	lbs	kg	in	mm	in	mm	in mm	in	mm	in	mm	
GA-MG-3 HP	3D3	3	1.4	8	3.6	3.50	89	3.75	95	5.00 127	6.0	152	10	254	
GA-MG-5 HP	5D3	5	2.3	17	7.7	3.50	89	3.75	95	8.50 216	6.0	152	12	305	
GA-MG-9 HP	9D3	9	4.1	27	12.2	3.50	89	3.75	95	14.00 356	6.0	152	17	432	
GA-MG-17 HP	17D3	17	7.7	45	20.4	3.50	89	3.75	95	25.75 654	7.5	191	34	864	
GA-MG-20 HP	20D2	20	9.1	70	31.8	2.75	70	3.00	76	59.75 1518	5.0	127	66	1676	
GA-MG-32 HP	32D5	32	14.5	70	31.8	5.50	140	5.00	127	20.50 521	8.0	203	28	711	
CA MC 22 HD	2002	22	115	01	11 2	2 50	00	2 75	05	45 25 1140	6.5	165	50	1246	
GA-MG-40 HP	40D3	40	18.1	96	43.5	3.50	89	3.75	95	59.75 1518	6.5	165	66	1676	
GA-ING-40 HP	4000	40	21.0	100	43.4	5.50	140	5.75	140	31.00 /0/	0.0	203	30	900	
GA-MG-60 HP	4x4x60	60	27.2	125	56.7	4.00	102	4.00	102	60.00 1524	7.0	178	64	1626	

Other shapes, sizes and weights available on request.



For the very best in Magnesium Anodes – specify SuperMAG[™].

NOTE: While statements contained herein are believed to be accurate, they are offered as suggestions only and no warranty or representation is intended. Galvotec Alloys products are sold subject to the terms and conditions appearing on our printed order acknowledgment.





WIRING-TO-STRUCTURE WELD DETAIL

1. DEGREASE AND CLEAN STRUCTURE TO BARE, BRIGHT METAL WITH MECHANICAL DEVICES.

- 2. STRIP WIRE INSULATION AND ATTACH FROM WIRE AND ATTACH A BAC M1 COMPRESSION TERMINAL OR APPROVED EQUAL.
- 3. LOAD THE BRAZING GUN WITH A DIRECT BRAZING PIN AND FERRULE. USE A THREADED TYPE CONNECTION FOR ABOVE-GROUND USE ONLY.
- 4. BRAZE THE CABLE TO THE PIPE. EXTRA MATERIAL REQUIRED FOR DI OR CI PIPE.
- 5. TEST BRAZE BY BREAKING OFF THE SHANK OF THE PLAIN PIN WITH A HAMMER.
- 6. COVER CONNECTION WITH MASTIC FILLED WELD CAP AND BITUMASTIC COATING 80% SOLIDS BY VOLUME OVER WELD CAP AND ALL EXPOSED METAL.
- 7. ALL WELDS SHALL BE A MINIMUM OF 6" APART.
- 8. ALLOW WELD COATING TO CURE PER MANUF. RECOM. BEFORE BURIAL.

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#8 AWG THWN (WHT) DRAIN CABLE

#8 AWG THWN (WHT) TEST CABLE

TERMINAL POST RING CONNECTION AND ID TAG (TYP) SEE DETAIL







1. USE THE APPROPRIATE TERMINAL BOARD AT EACH TEST STATION AS SPECIFIED IN THE PLAN SHEETS.

2. DO NOT CONNECT SHUNT BETWEEN PIPE AND ANODES DURING CONSTRUCTION. SHUNT TO BE CONNECTED AFTER THE FREE-CORODING POTENTIALS HAVE BEEN RECORDED BY THE CONTRACTOR'S CORROSION ENGINEER DURING FIELD TESTING.

TERMINAL BOARD

TERMINAL BOX (COVER NOT SHOWN FOR CLARITY, COVER SHALL BE OSHA/USA BLUE)

0.01 OHM-8 AMP SHUNT

(4) - # 12 AWG HMWPE (BLK) ANODE CABLE

3" DIA. x 3" LONG SCH 80 PVC COLLAR FILL WITH DUCT SEAL AFTER WIRES ARE IN PLACE.



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