

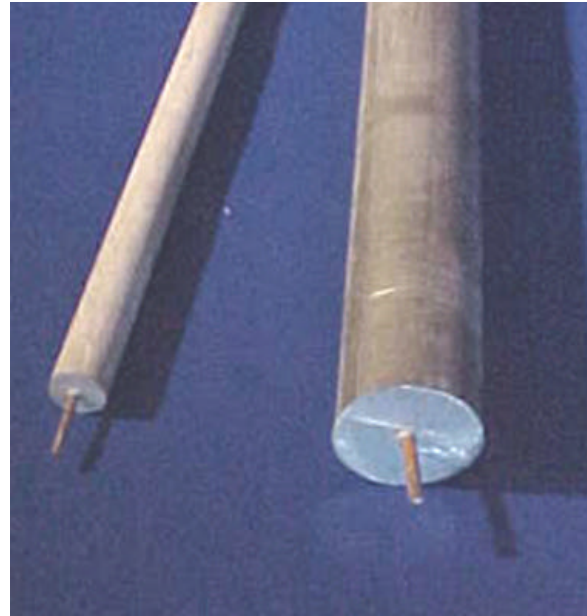
SACRIFICIAL ANODES

Extruded Magnesium Anodes

For Specialized Protection

Magnesium anodes have the highest protection capability of any galvanic material. While these anodes are most commonly used in the cast metal form, certain structures can be better protected through the use of extruded magnesium configurations. Extruded magnesium anodes have high surface and length ratios in relation to cross-sectional size. This allows these anodes to deliver a greater amount of current per weight than their cast magnesium counterparts. By supplying more current, extruded anodes can deliver effective protection to structures buried in even highly resistive electrolytes.

Corrpro offers a full line of certified extruded magnesium anodes in both rod and ribbon forms. Certified rod anodes from Corrpro are available in high-potential (1.75-1.77 volts and 1.4-1.5 volts) alloys. They are furnished with a variety of connection options, and are offered in numerous diameters. Corrpro ribbon anodes are manufactured in 3/8" x 3/4" flexible coils, which can be easily shaped for use on a multitude of protection projects. The resilient ribbon anode is composed of a high-potential alloy, which produces an open circuit potential of 1.75-1.77 volts. Both the rod and ribbon anodes are constructed with a solid steel core, which runs lengthwise through the anodes for efficient electrical discharge.



Extruded magnesium anodes are most suitable for structures buried or submerged in high-resistivity electrolytes. The rod-shaped anodes, with their small diameters, are often used in commercial and industrial water heaters and storage tanks, or driven into the ground to protect gas service risers. The ribbon anode is used for the protection of pipelines and storage tanks. Extruded anodes are also employed to pre-polarize offshore structures that are to be protected with aluminum anodes.

CHEMICAL COMPOSITION

Element	Content %	
	1.75-1.77V	1.4-1.5V
Al	0.010 max	2.5-3.5
Mn	0.5-1.3	0.20 min
Zn	–	0.7-1.3
Si	–	0.05 max
Cu	0.02 max	0.01 max
Ni	0.001 max	0.001 max
Fe	0.03 max	0.002 max
Other	0.30 max	0.30 max
Magnesium	Remainder	Remainder



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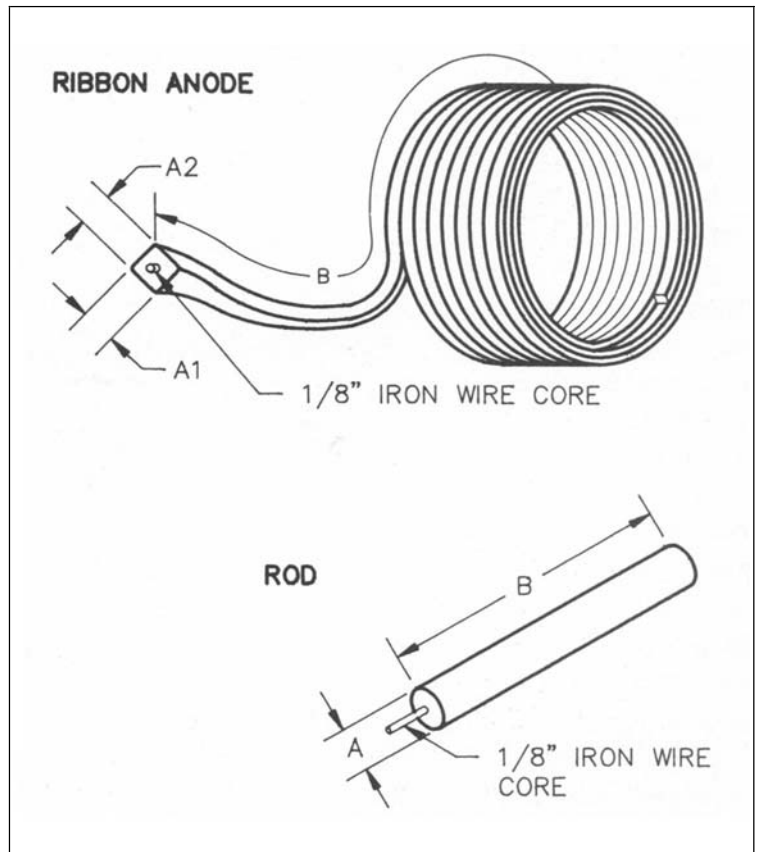
Extruded Magnesium Anodes

Ordering Procedure

Corpro certified extruded magnesium anodes are readily available for immediate shipment. To order the required anode for your structure, indicate that you need an extruded magnesium anode made either in rod or ribbon, and specify the quantity or lineal feet desired, alloy grade, and rod diameter and length. Corpro ribbon anodes are supplied standard in 3/8" x 3/4" coils. An example is provided to help illustrate this process.

Ordering Procedure Example

ITEM	EXAMPLE
Quantity	200
Anode Material	Extruded Magnesium
Anode Type	Rod
Alloy Composition	high-potential
Diameter (in.)	0.840
Length (ft.)	24



Standard Dimensions and Shipping Weights

ANODE TYPE	NOMINAL DIMENSIONS		NOMINAL WT. lbs./lineal ft. (kg/lineal m)
	"A" in. (mm)	"B" ft. (m)	
Ribbon	3/8 x 3/4 (9.5 x 19)	1,000 (305)	0.24 (0.36)
Rod	0.750 (19)	24 (7.3)	0.36 (0.54)
Rod	0.840 (21.34)	24 (7.3)	0.45 (0.67)
Rod	1.050 (27)	24 (7.3)	0.68 (1.01)
Rod	1.315 (33)	24 (7.3)	1.06 (1.58)
Rod	1.561 (40)	10 (3.0)	1.50 (2.24)
Rod	2.024 (51)	10 (3.0)	2.50 (3.73)



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