

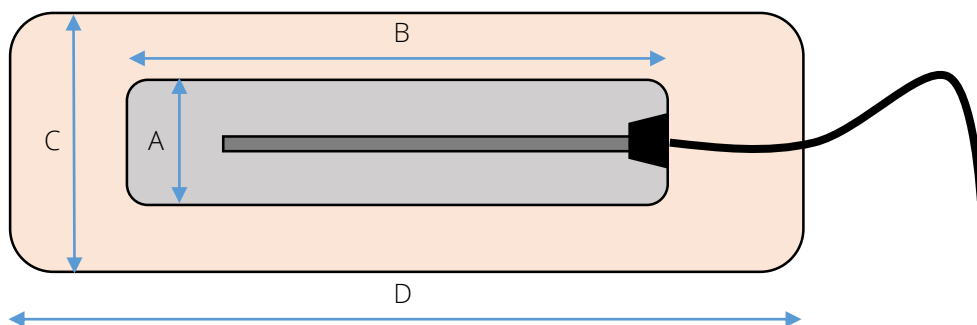
# MAGNESIUM ANODES STANDARD TYPE

Magnesium Anodes are used to apply Cathodic Protection to a variety of structures. They are manufactured in a comprehensive range of shapes and sizes. The magnesium is available in two grades, BAC High purity ISOROD, and BAC ISOMAG.

The anode casting has a central steel insert to ensure even dissipation of the anode material over time. The cable connection is brazed to the steel insert and epoxy resin encapsulated

## DATASHEET 1.1

### MAG ANODES



Anode Type	Net Weight		Nominal Dimensions		Packaged Dimensions		Total Packaged Weight
	Lbs	Kg	A mm	B mm	C mm	D mm	Kg
41	9	4.1	89	352	133	508	12.3
77	17	7.7	120	430	190	610	20.5
100	22	10	115	505	175	740	17.7
145	32	14.5	140	550	216	711	30.9
218	48	21.8	140	765	216	1100	46
273	60	27.3	120	1450	190	1680	50

Performance can be improved by retaining moisture thus reducing the resistivity of the electrolyte local to the anode. To help do this, pipeline anodes can be supplied packaged in a cotton bag containing a backfill of Gypsum, Bentonite and Sodium Sulphate.

Alternatively the backfill can be provided loose, in a variety of compositions, for site application.

Standard Backfill Composition:

- Powdered Gypsum 75%
- Granular Bentonite 20%
- Sodium Sulphate 5%

The anode and backfill are contained in a cotton bag.



**BAC**<sup>®</sup>

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## MAG ANODES



### HOW TO ORDER

Specify Anode Weight or Model (i.e. 41)  
Specify Anode Voltage (i.e. 1.5V or 1.7V)  
Specify Cable Type (i.e. XLPE/PVC)  
Specify Cable Length (i.e. 5m)  
Specify Quantity Required

If you have any special requirements please do not hesitate to contact us if your desired option is not detailed.

### ALLOY COMPOSITION

#### Specification ISOMAG (1.7V)

Manganese 0.5 - 1.3%  
Aluminium 0.010% max  
Copper 0.02% max  
Iron 0.03% max  
Nickel 0.001% max

Total any other single impurity 0.05% max  
Total of all other impurities 0.30% max  
Magnesium Remainder

Potential (Ag/AgCl reference) 1.7 volts  
Capacity (Ampere hours) 1230 A/hr/Kg

#### Specification ISOROD (1.5V)

Aluminium 5.3 - 6.7%  
Zinc 2.5 -3.5%  
Manganese 0.25% min  
Iron 0.005% max  
Silicon 0.30% max  
Copper 0.08% max  
Nickel 0.003% max  
Total of all other impurities 0.30% max  
Magnesium Remainder

Potential (Ag/AgCl reference) 1.5 Volts  
Capacity (Ampere hours) 1230 A/hr/Kg

### CABLE

A range of cables are available with typical insulation and sheathing as follows :

- XLPE/PVC or XLPE/PVC/SWA/PVC
- HMWPE
- PVDF/HMWPE
- EPR CSP

Cable sizes are available between 4mm<sup>2</sup> and 25mm<sup>2</sup> as standard.

Outer Sheathing is generally available in Red or Black, custom colours available on request but can be subject to an M.O.Q.

Information provided is liable to change without prior notice.

