



MAGNESIUM PIPELINE ANODES


REVISION 1

APPLICATION

Temporary protection of buried pipelines, protection of well coated buried pipelines, internal protection of water tanks, and protection of small marine structures, "Hot spot" locations for buried & submerged steel structures. Suitable for use in soils, mud, fresh water, brackish water and sea water.

MAGNESIUM ANODE DATA



MAGNESIUM ALLOY SPECIFICATIONS

	Standard	High Potential
Aluminium	5.30-6.70%	0.01% max
Zinc	2.50-3.50%	-
Manganese	0.15-0.70%	0.50-1.30%
Silicon	0.10% max	0.05% max
Copper	0.02% max	0.02% max
Nickel	0.002% max	0.001% max
Iron	0.003% max	0.03% max
Other impurities Each	-	0.05% max
Total	0.30% max	0.30% max
Magnesium	Balance	Balance
Open Circuit Potential wrt Cu/CuSO ₄	1.57-1.60 -Volts	1.77-1.82 -Volts
Closed Circuit Potential wrt Cu/CuSO ₄	1.52-1.57 -Volts	1.64-1.69 -Volts
Output Capacity	1200 A/hr/kg	1100 A/hr/kg
Current Efficiency	50%	50%

ANODE CABLE

Anodes are supplied with 5m of 1Cx6mm² XLPE/PVC cable (red outer sheath) as standard. Other sizes and lengths of cable can be fitted to suit customer requirements.



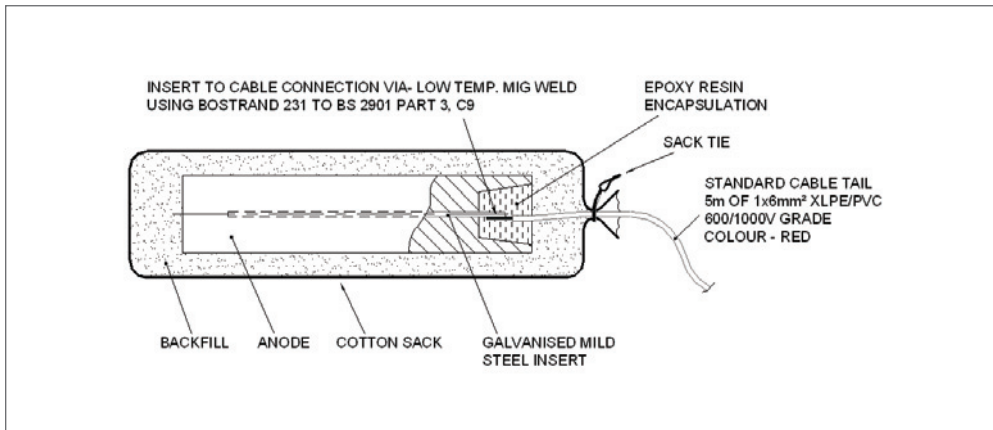
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STANDARD ANODE TYPES AND WEIGHTS

Type	Nominal Weight (lbs)	Nominal Weight (lbs)	Approx Width (mm)	Approx Height (mm)	Approx Length (mm)
9	9	4.1	69.85	76.20	685.80
17	17	7.7	88.90	95.25	641.35
20	20	9.1	69.85	76.20	1,517.65
32	32	14.5	139.70	146.05	504.82
48	48	22.7	139.70	146.05	765.18
9P(*)	16.5	7.5	140	140	740
17P(*)	37.4	17	150	150	740
22P(*)	46.2	21	150	150	1700
32P(*)	70.4	32	195	195	640
48P(*)	96.8	44	195	195	900

(*) Packaged Anodes



STANDARD BACKFILL

Gypsum	75%
Bentonite	20%
Sodium Sulphate	5%