



epe

Engineered to Respond



POLCOR®

Marine Sacrificial Anodes & Antifouling Anodes

EPE is a leading specialized supplier of sacrificial anodes and cathodic protection solutions internationally, with applications to subsea infrastructures, shore and land structures, underground pipelines, wind farms, jetties, ships & yachts.

Defining environmental protection since 1977
Over 10,000 delivered projects. An unrivalled global network.



Quality

- Highest quality standards according to ISO
- Lloyd's Register type-approved anodes
- Advanced QC of composition & performance
- In-house laboratories for 24/7 PQC



Efficiency

- Tailor-made designs
- Lean production, lowest cost rates



Sustainability

- Minimum emissions during production cycle
- Highest environmental standards according to ISO



Customer Service

- Continuous technical support
- Stock points in major ports



MARITIME

PORTS

OFFSHORE

Aluminum Anodes

The chemical composition of aluminum anodes is based in the well-established Al-Zn-In and it is suitable for most sea water applications. Their electrochemical capacity is more than three times greater than the capacity of zinc. It is the most widely used alloy for the cathodic protection of ships and other marine metallic structures.

POLCOR's pre-casting quality secures the concentration of all important elements (either impurities or alloying elements), even in very low concentrations, in order to strictly conform to the specification.

Zinc Anodes

The Zinc alloy type is the well-established formulation based on US MIL – A – 18001K specification. It is suitable for general seawater applications. Its low electrochemical capacity makes it suitable for coated structures where the current demand is significantly reduced.

Antifouling Anodes

We provide Antifouling spare electrodes (Copper-Aluminum, Copper-Iron) as per your requirements for any kind of Impressed Current Antifouling System you may have on board.

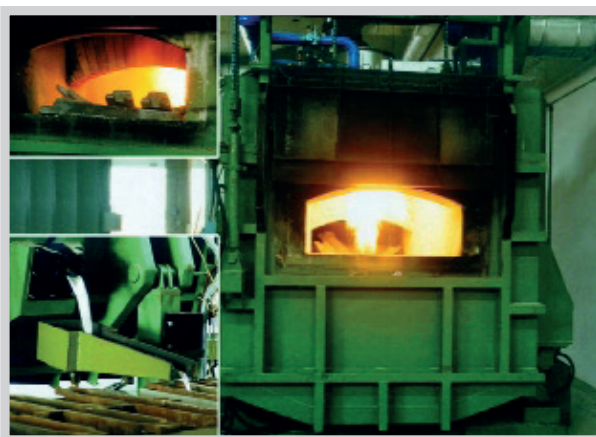
Our flexible production line ensures very cost efficient rates in addition to our quality control system that guarantees reliable operation of POLCOR spare antifouling electrodes.

Cathodic Protection Services

- Design of ships & off-shore equipment cathodic protection systems
- Design & installation of on-land pipelines cathodic protection systems
- Field surveys of on-land pipelines cathodic protection systems

ALUMINIUM ANODES

ALUMINIUM ALLOY	
Specification	DNV RP B 401
Al	Remaining
Zn	2.5-5.75% range
Fe	0.09% max.
Cu	0.003% max.
In	0.015-0.040% range
Si	0.12% max.
Cd	0.002% max.
Capacity	2680Ah/kg
Efficiency	90%
Potential	-1100mV vs Ag/AgCl (sea water)



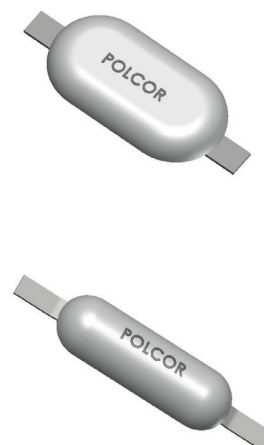
Type	Anode dimensions (mm)				Weight (kg)	
	Length	Upper base	Lower base	Height	Net	Gross
AT30	220	65	50	75	2.5	3.0
AT44	765	50	40	57	4.4	5.5
AT50	380	65	50	75	4.3	5.0
AT80	610	65	50	75	7.1	8.0
AT82	1220	50	40	57	8.3	9.8
AT110	765	65	50	75	8.9	10.0
AT117	1000	65	50	75	11.7	13.0
AT130	640	85	75	95	12.4	13.3
AT159	750	85	75	95	14.5	15.6
AT160	1500	60	45	68	13.5	15.3
AT180	1500	65	45	70	15.5	17.3
AT210	1000	85	75	95	19.3	20.6
AT250	1220	85	75	95	23.5	25.0
AT310	1500	85	75	95	29.0	30.7

Type	Anode dimensions (mm)			Weight (kg)	
	Length	Width	Height	Net	Gross
A15	230	78	37	1.1	1.5
A28	290	100	50	2.3	2.8
A30	275	148	32	2.7	3.5
A37	285	145	71	3.7	4.2
A43	285	145	75	4.3	4.8
A60	450	100	52	5.0	6.2
A66	549	127	55	6.6	8.0
A100	550	128	50	8.5	9.9
A120	555	132	68	10.3	11.8
A140	660	132	68	12.3	14.1
A150	920	128	52	13.0	15.0
A168	920	128	57	14.8	16.8
A180	920	128	60	16.0	18.0
A200	920	128	68	18.0	20.0
A223	920	128	72	20.3	22.3
A260	920	132	79	24.0	26.0

Tank Anodes



Hull Anodes



ZINC ANODES



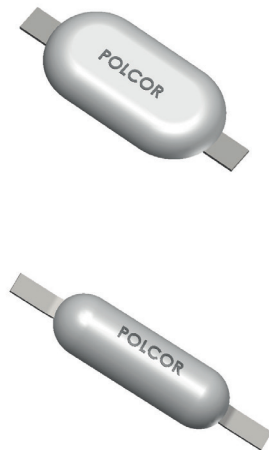
ZINC ALLOY	
Specification	US MIL A-18001K
Zn	Remaining
Al	0.1-0.5% range
Fe	0.005% max.
Pb	0.006% max.
Cd	0.025-0.07% range
Cu	0.005% max.
Capacity	780Ah/kg
Efficiency	95%
Potential	-1050mV vs Ag/AgCl (sea water)

Tank Anodes



Type	Anode dimensions (mm)				Weight (kg)	
	Length	Upper base	Lower base	Height	Net	Gross
ZT34	200	50	40	57	3.4	4.0
ZT50	270	50	40	57	4.8	5.4
ZT57	335	50	40	57	5.7	6.5
ZT80	410	50	40	57	7.3	8.0
ZT110	520	50	40	57	9.1	10.0
ZT100	600	50	40	57	10.0	11.0
ZT130	640	50	40	57	11.0	12.0
ZT133	250	85	75	95	13.3	14.0
ZT150	830	50	40	57	14.5	15.6
ZT165	550	65	50	75	16.5	17.4
ZT200	1000	50	40	57	18.3	19.6
ZT195	500	80	70	75	19.5	20.4
ZT230	1220	50	40	57	21.5	23.0
ZT320	1220	60	45	68	30.0	31.5

Hull Anodes



Type	Anode dimensions (mm)			Weight (kg)	
	Length	Width	Height	Net	Gross
10Z	180	60	30	1.0	1.1
20Z	220	75	35	2.0	2.1
30Z	230	78	37	2.2	2.6
Z30	250	80	25	2.8	3.0
45Z	290	100	47	4.5	5.0
50Z	290	100	50	4.8	5.3
70Z	275	92	45	6.0	6.5
80Z	275	148	32	7.3	8.0
95Z	285	145	66	9.5	10.0
110Z	285	145	71	10.1	10.6
130Z	450	100	62	11.8	13.0
160Z	590	105	48	14.3	16.0
185Z	550	127	48	18.5	20.0
220Z	550	128	50	20.5	22.0
285Z	630	130	61	28.5	30.0
300Z	630	130	55	24.3	26.0

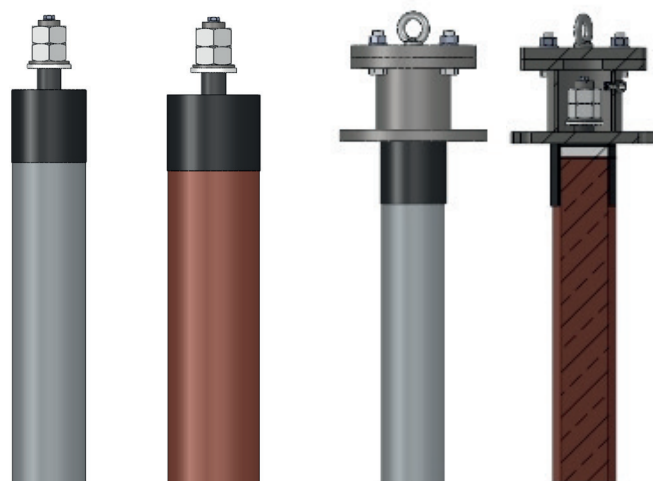
Type	Anode dimensions (mm)				Weight (kg)			
					Aluminium		Zinc	
	Length	Width	Pitch	Height	Net	Gross	Net	Gross
B2	150	70	80	20	0.5	0.6	1.4	1.5
B4	200	100	110	30	1.4	1.5	3.1	3.2
B9	300	150	160	30	3.0	3.3	7.9	8.2
B10	300	150	160	40	4.2	4.5	11.1	11.4
B11	300	150	160	50	5.1	5.4	13.5	13.8
B15	300	200	160	40	5.3	5.6	14.8	15.1
B17	300	200	160	50	7.3	7.6	20.3	20.6
B20	300	200	160	65	10.3	10.6	26.4	26.7
B92A	540	140	340	64	9.2	9.6		
B110A	300	200	160	75	11.0	11.3		
B114A	460	200	260	64	11.4	11.8		
B130A	400	200	180	70	13.0	13.4		
B145A	920	128	305	60	14,5	16,1		
B150A	540	200	340	65	15.0	15.6		
B155A	400	200	160	85	15.0	15.5		
B233Z	540	140	340	65			23.3	23.7
B304Z	400	200	160	62			30.4	30.8
B400Z	400	200	160	85			39.5	40.0
B410Z	540	200	340	65			41.0	41.6

Bolt-on Anodes



Antifouling Spare Anodes

We provide Antifouling Spare Anodes (Copper & Aluminium, Copper & Iron, Stainless Steel Cathode) as per your requirements for any kind of Marine Growth Prevention System on board. Our flexible production line ensures very cost efficient rates in addition to our quality control system that guarantees reliable operation of POLCOR spare Antifouling Anodes.





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 **POLCOR**[®]

Defining environmental protection since 1977

Environmental Protection Engineering S.A.

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