

Applications:

Jetties, Craypots, Ship Tanks, Semi-submersibles

Characteristics:

Aoline anodes are cast from special aluminium alloys developed by WWI in conjunction with British Aluminium Co. Ltd. Suitably formulated for the specific applications, they are characterised by lightweight, smooth corrosion pattern, high electrical capacity and stability. Fewer anodes may be used for a given installation compared with other materials and substantially lower cost per installed system is achieved.

Materials:

Aoline anodes are cast to AS2239 – 2003 alloy A2. Additionally, WWI have developed alloy BA 778 which has been found to be the most reliable material available for the use in hot saline mud. This characteristic makes BA 778 a suitable material for the bracelet anodes applied to offshore pipelines.

Aoline anodes are cast in alloys of aluminium and indium plus additions and have developed specifically for use in sea-water. The materials are very suitable in driving potential and efficiency even in electrolytes of varying conductivity and temperature. In normal sea-water having a resistivity of about 25 ohms cms, approximately 2700 ampere hours of current are provided in each kilogram of alloy which will maintain a potential of -1170mV when measured against a copper/copper sulphate reference half cell. The alloys have a higher driving potential than zinc or aluminium-mercury alloys in common use for cathodic protection purpose and operate successfully in very cold sea-water and at great depths.

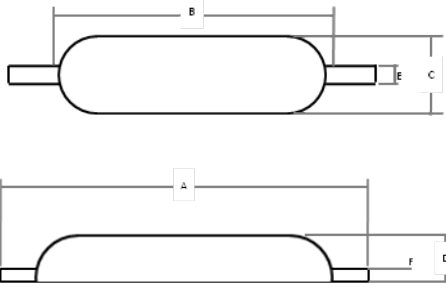
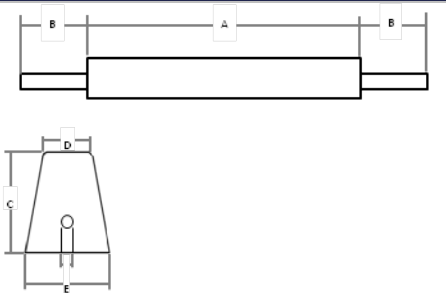
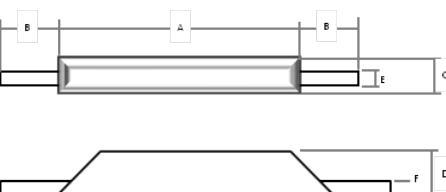
Product Range:

A list of standard anode types is given over, however, we have the facility to supply specialised designed anodes outside this range to suite custom end use requirements.

Chemical Composition:

Element	Zinc	Indium	Cadmium	Sillicon	Iron	Magnesium	Titanium	Copper	Tin	Other Impurities each	Other Impurities Total	Aluminium
Min.	3.0	0.02	-	-	-	0.6	0.02	-	-	-	-	remainder
Max.	5.0	0.05	0.005	0.02	0.12	2.2	0.05	0.006	-	0.02	0.05	remainder

Aoline Dimensions:

Shape	Type	A	B	C	D	E	F	Nett Wt.	Gross* Wt.
	WA1	305	228	75	38	40	5	0.95	1.14
	WA2	355	255	75	32	32	3	1.33	1.55
	WA3	350	270	150	32	40	5	2.6	3.24
	WA5	533	406	150	31	40	5	4.5	5.2
	WA8	778	585	120	35	40	5	6.6	7.9
	WA10	648	546	127	50	40	5	8.6	9.8
	WA11	778	605	125	50	40	5	9.9	11.2
	WA12	648	546	127	64	40	5	10.5	11.6
	WA15	778	615	132	65	40	5	13.6	14.9
	WA16	1016	914	127	50	40	5	14.1	15.9
Shape	Type	A	B	C	D	E	F	Nett Wt.	Gross* Wt.
	WA0	200	100	25	25	25	5	0.36	0.39
	W19-10	762	228	80	50	63	12	8.6	10.0
	W19-13	1016	228	80	50	63	12	11.6	13.2
	WA19	1524	228	80	50	63	12	17.3	19.4
	WA46	2375	237	87	82	87	12	46.0	48.5
Shape	Type	A	B	C	D	E	F	Nett Wt.	Gross* Wt.
	WA50	762	101	171	152	50	12	46	50.5
	WA111	1524	101	171	152	50	12	102.03	111.12
	WA320	1200	125	332	319	50	12	302	322

**includes weight of m.s. insert*

All dimensions in millimetres and weight in kilograms

Other Anode Types are available on request