



Aoline®
Sacrificial Anode, Cathodic Protection, Aluminium Alloys



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 characterized 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 AS 2239 –2003 alloy A2. Additionally, WWI have developed alloy BA 778 which has been found to be most reliable material available for the use in hot saline mud. This characteristic make 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 provide 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, Savcor have the facility to supply specialised designed anodes outside this range to suit custom end use requirements.

Chemical Composition

Element	Zinc	Indium	Cadmium	Silicon	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

Vic/Tas/SA 03 9993 7500	NSW 02 9663 2322	NZ 09 414 5080	QLD/NT 07 3890 8533	WA 08 9248 8999
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All written data and statements herein are provided in good faith and believed to be reliable and appropriate at the time of drafting this document. However it is given without implied or express guarantee. Potential uses are urged to trial and /or conduct conformity test of the product to deem its suitable in application for a particular end use prior to purchase.

Aoline dimensions

Other anode types are available on request.
 All dimensions in millimetres and weight in kilograms
 *Includes weight of m.s insert

Shape	Order code	Type	A	B	C	D	E	F	Nett Wt.	Gross* Wt.
	80010	WA1	305	228	75	38	40	5	0.95	1.14
	80030	WA2	355	255	75	32	32	3	1.33	1.55
	80035	WA3	350	270	150	32	40	5	2.6	3.24
	80045	WA5	533	406	150	32	40	5	4.5	5.2
	80050	WA8	778	585	120	35	40	5	6.6	7.9
	80055	WA10	648	546	127	50	40	5	8.6	9.8
	80060	WA11	778	605	125	50	40	5	9.9	11.2
	80065	WA12	648	546	127	64	40	5	10.5	11.6
	80070	WA15	778	615	132	65	40	5	13.6	14.9
	80075	WA16	1016	914	127	50	40	5	14.1	15.9
	Order Code	Type	A	B	C	D	E	F	Nett Wt.	Gross* Wt.
	80000	WA0	200	100	25	25	25	5	0.36	0.39
	80090	W19-10	762	228	80	50	63	12	8.6	10.0
	80095	W19-13	1016	228	80	50	63	12	11.6	13.2
	98880	WA19	1524	228	80	50	63	12	17.3	19.4
80105	WA46	2375	237	87	82	87	12	46.0	48.5	
	Order Code	Type	A	B	C	D	E	F	Nett Wt.	Gross* Wt.
	80120	WA50	762	101	171	152	50	12	46	50.5
	80135	WA111	1524	101	171	152	50	12	102.03	111.12
80150	WA320	1200	125	332	319	50	12	302	322	

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