

# STAND-OFF ALUMINUM SLENDER ANODES

PRODUCT DATA SHEET



www.yuxi-anode.com



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Aluminum anode is a popular choice for off-shore cathodic protection due to its light weight, simplicity of installation and adaptability to cast into a variety of sizes. As the stand-off anode protrudes from the surface installed, so the anode material is not in direct contact with the surface to be protected. Thus, the stand-off anode is better utilized over their lifetime — its anode utilization factor can reach up to 85 to 90%.

#### **CHEMICAL COMPOSITION**

Casted in low-iron, high-purity alloys, our aluminum anodes are designed as per the standard of NACE, DNV, ISO.

#### GALVALUM III (Al-Zn-In-Si)

Element		Content (%)
Zinc	(Zn)	2.000 ~ 6.000
Indium	(In)	0.010 ~ 0.020
Silicon	(Si)	0.080 ~ 0.200
Iron	(Fe)	0.130 max.
Copper	(Cu)	0.006 max.
Cadmium	(Cd)	_
Other Impurities		0.100 max.
Aluminum	(AI)	Remainder

#### DNV-RP-B401-2011 (AI-Zn-In)

Element		Content (%)
Zinc	(Zn)	2.500 ~ 5.750
Indium	(In)	0.015 ~ 0.040
Silicon	(Si)	0.120 max.
Iron	(Fe)	0.090 max.
Copper	(Cu)	0.003 max.
Cadmium	(Cd)	0.002 max.
Other Impurities		0.100 max.
Aluminum	(AI)	Remainder

#### GS EP COR 201 (AI-Zn-In)

Element		Content (%)
Zinc	(Zn)	4.750 ~ 5.750
Indium	(In)	0.015 ~ 0.020
Silicon	(Si)	0.060 ~ 0.120
Iron	(Fe)	0.120 max.
Copper	(Cu)	0.003 max.
Cadmium	(Cd)	0.002 max.
Other Impurities		0.100 max.
Aluminum	(AI)	Remainder









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#### **ELECTROCHEMICAL PROPERTIES**

Technical Measurement	Performance			
Open Circuit Voltage (min.)	-1.10 Volts			
Closed Circuit Voltage (min.)	-1.05 Volts			
Current Capacity	2500 A.h/kg (1135 A.h/lbs)			
Current Efficiency (min.)	90%			
Consumption Rate	3.4 kg/A.y (7.6 lbs/A.y)			

\* The open/closed circuit voltage is with respect to a Ag/AgCl reference electrode.

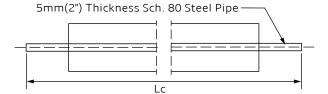
#### **PRACTICAL APPLICATION**

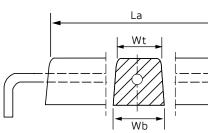
Our aluminium anodes are used to prevent corrosion of steel structures in seawater and brackish water. Although the voltage rate is lower than that of magnesium anodes, aluminium anodes have a much slower consumption rate, making them ideally suited for marine applications – offshore drilling platforms, wind turbine foundation and harbour facilities.

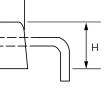
#### **SPECIFICATIONS**

Trapezoidal Anode with Cow Horn Tubular Insert Protruding from Both Ends









YUX

Item No.	Anode Dimensions				Core Dimensions		Weight	
	Wt	Wb	Н	La	Dia.	Lc	Anode	Core
YX-AL-SST1	150 mm	170 mm	160 mm	900 mm	50 mm	1300 mm	56.5 kg	10.5 kg
	(5.9")	(6.7″)	(6.3″)	(35.4")	(1.97")	(51.2")	(124.6 lbs)	(23.1 lbs)
YX-AL-SST2	170 mm	200 mm	180 mm	1500 mm	50 mm	1900 mm	126 kg	14 kg
	(6.7″)	(7.9")	(7.1")	(59.1")	(1.97″)	(74.8″)	(277.8 lbs)	(30.9 lbs)
YX-AL-SST3	200 mm	210 mm	220 mm	1600 mm	60 mm	2000 mm	181.5 kg	18.5 kg
	(7.9")	(8.3")	(8.7″)	(63")	(2.36″)	(78.7″)	(400.1 lbs)	(40.8 lbs)
YX-AL-SST4	220 mm	240 mm	230 mm	2300 mm	89 mm	2800 mm	289 kg	35.5 kg
	(8.7″)	(9.4")	(9.1")	(90.6")	(3.5″)	(110.2")	(637.1 lbs)	(78.3 lbs)

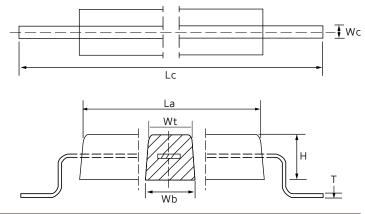


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#### Trapezoidal Anode with Cranked Flat Bar Insert

Protruding from Both Ends





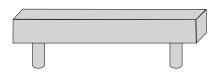
YUX

Item No.	Anode Dimensions			Core Size			Weight		
Item No.	Wt	Wb	Н	La	Wc	Т	Lc	Anode	Core
YX-AL-SSF1	115 mm	135 mm	130 mm	500 mm	50 mm	4 mm	750 mm	21.6 kg	1.1 kg
	(4.5")	(5.3")	(5.1")	(19.7")	(2")	(0.16″)	(29.5″)	(47.6 lbs)	(2.4 lbs)
YX-AL-SSF2	115 mm	135 mm	130 mm	750 mm	50 mm	4 mm	1000 mm	32.5 kg	1.5 kg
	(4.5")	(5.3″)	(5.1")	(29.5″)	(2")	(0.16″)	(39.4")	(71.7 lbs)	(3.3 lbs)
YX-AL-SSF3	115 mm	135 mm	130 mm	1000 mm	50 mm	6 mm	1250 mm	43 kg	3 kg
	(4.5")	(5.3")	(5.1")	(39.4")	(2")	(0.24")	(49.2")	(94.8 lbs)	(6.6 lbs)
YX-AL-SSF4	115 mm	135 mm	130 mm	1250 mm	50 mm	6 mm	1500 mm	53.7 kg	3.6 kg
	(4.5″)	(5.3")	(5.1")	(49.2")	(2")	(0.24″)	(59.1")	(118.4 lbs)	(7.9 lbs)
YX-AL-SSF5	160 mm	220 mm	180 mm	700 mm	50 mm	8 mm	950 mm	63.8 kg	2.8 kg
	(6.3″)	(8.7″)	(7.1")	(27.6″)	(2")	(0.31″)	(37.4")	(140.7 lbs)	(6.2 lbs)
YX-AL-SSF6	200 mm	280 mm	150 mm	800 mm	50 mm	10 mm	1050 mm	76.5 kg	4 kg
	(7.9")	(11")	(5.9")	(31.5")	(2")	(0.39")	(41.3")	(168.7 lbs)	(8.8 lbs)
YX-AL-SSF7	180 mm	220 mm	180 mm	850 mm	50 mm	10 mm	1100 mm	81.5 kg	4.2 kg
	(7.1")	(8.7")	(7.1")	(33.5")	(2")	(0.39")	(43.3")	(179.7 lbs)	(9.3 lbs)
YX-AL-SSF8	148 mm	178 mm	170 mm	1500 mm	50 mm	10 mm	1800 mm	110 kg	6.8 kg
	(5.8")	(7")	(6.7″)	(59.1")	(2")	(0.39")	(70.9")	(242.5 lbs)	(15 lbs)

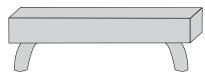
Note: All dimensions and weights shown above are nominal. The information provided is subject to change without notice.

#### MORE CONFIGURATION OPTIONS

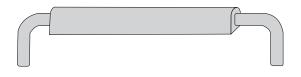
Trapezoidal Anode with Goal Post Tubular Insert Protruding from Back Face



Trapezoidal Anode with Cow Horn Tubular Insert Protruding from Back Face



#### D-section Anode with Cow Horn Tubular Insert Protruding from Both Ends







### **Industrial Corrosion Control Solutions Provider**

Established in 2003, YUXI has over a 20-year heritage of innovation in corrosion control science and technology. We're a spirited team of ambitious thinkers and pioneer sheep with a common goal in mind: protect our clients' assets from corrosion with cost-saving measures.

We have the most comprehensive catalog of cathodic protection materials including anodes, transformer rectifiers, backfills, coatings, etc. Our anodes and supplies are manufactured to strict quality standards through an ISO 9001 quality management system and are guaranteed to offer excellent performance in the industry.



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