



ALUMINUM BRACELET ANODES

PRODUCT DATA SHEET

ALUMINUM BRACELET ANODES

Aluminum anodes are used to prevent corrosion of metal structures in seawater and brackish water. YUXI offers a wide range of half shell and segmented aluminium bracelet anodes in welded and bolted type. The bracelet, consisting of multiple individual anode sections, is suitable for direct attachment around the circumference of cylindrical structure.

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	(Al)	Remainder

■ DNV-RP-B401-2011 (Al-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	(Al)	Remainder

■ GS EP COR 201 (Al-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	(Al)	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.

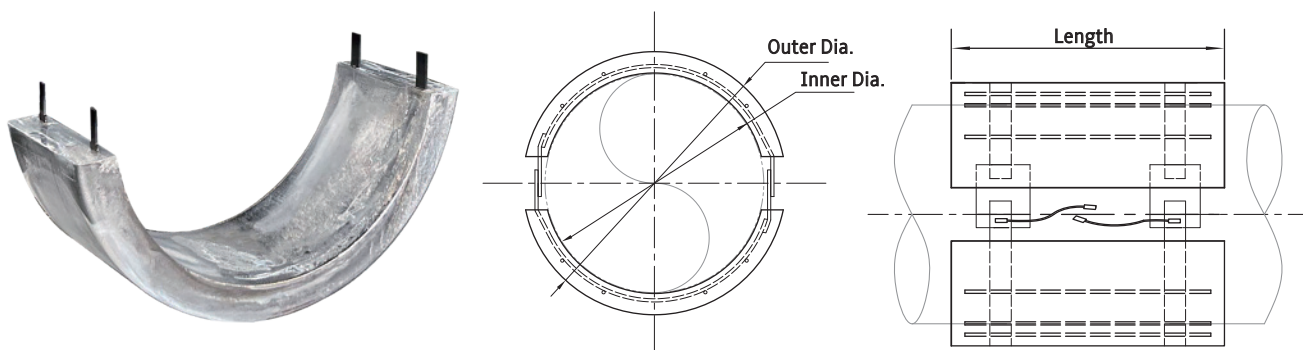
PRACTICAL APPLICATION

Our indium-activated aluminium bracelet anode is specifically designed for the cathodic protection of submarine/offshore pipelines, riser & dog leg of platform, steel pile of jetty, any circular steel structure, etc.



SPECIFICATIONS

■ Half Shell Bracelet Anode (Square End, Welded)

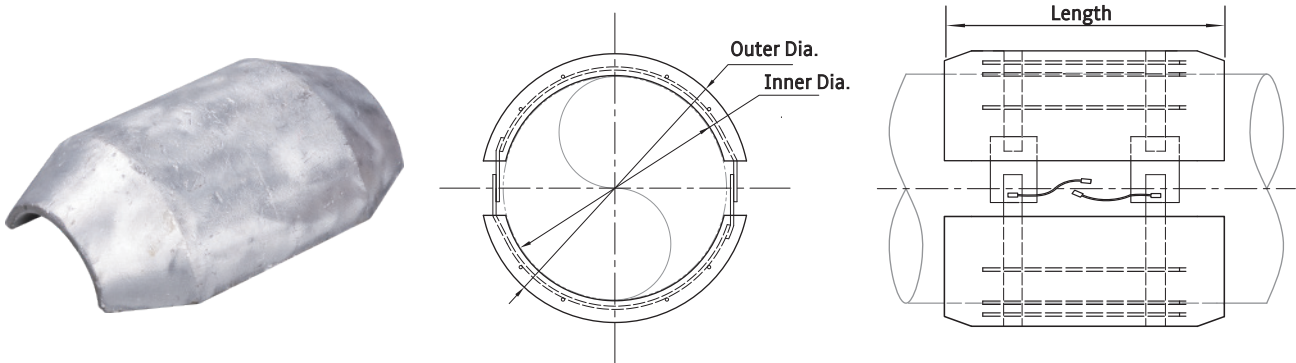


Item No.	Inner Diameter	Length	Thickness	Gap	Net Weight	Gross Weight
YX-AL-BS175	175mm (6.9")	495mm (19.5")	40mm (1.6")	50mm (2.0")	28.5kg (62.8 lbs)	30.0kg (66.1 lbs)
YX-AL-BS220	220mm (8.7")	415mm (16.3")	45mm (1.8")	50mm (2.0")	40.0kg (88.2 lbs)	42.5kg (93.7 lbs)
YX-AL-BS275	275mm (10.8")	550mm (21.7")	50.8mm (2.0")	55mm (2.2")	62.5kg (137.8 lbs)	68.0kg (149.9 lbs)
YX-AL-BS325	325mm (12.8")	480mm (18.9")	40mm (1.6")	50mm (2.0")	51.0kg (112.4 lbs)	55.0kg (121.3 lbs)
YX-AL-BS336	336mm (13.2")	802mm (31.6")	30mm (1.2")	50mm (2.0")	55.0kg (121.3 lbs)	57.0kg (125.7 lbs)
YX-AL-BS406	406mm (16.0")	350mm (13.8")	65mm (2.6")	50mm (2.0")	81.0kg (178.6 lbs)	85.0kg (187.4 lbs)
YX-AL-BS457	457mm (18.0")	550mm (21.7")	51mm (2.0")	50mm (2.0")	125kg (275.6 lbs)	128kg (282.2 lbs)
YX-AL-BS510	510mm (20.1")	250mm (9.8")	65mm (2.6")	50mm (2.0")	73.5kg (162.0 lbs)	80.5kg (177.5 lbs)
YX-AL-BS536	536mm (21.1")	714mm (28.1")	38mm (1.5")	50mm (2.0")	104.5kg (230.4 lbs)	108kg (238.1 lbs)
YX-AL-BS610	610mm (24.0")	410mm (16.1")	51mm (2.0")	50mm (2.0")	106kg (233.7 lbs)	117kg (257.9 lbs)
YX-AL-BS694	694mm (27.3")	320mm (12.6")	40mm (1.6")	50mm (2.0")	54.5kg (120.2 lbs)	58.0kg (127.9 lbs)
YX-AL-BS698	698mm (27.5")	406mm (16.0")	68mm (2.7")	75mm (3.0")	133.5kg (294.3 lbs)	138kg (304.2 lbs)
YX-AL-BS925	925mm (36.4")	350mm (13.8")	120mm (4.7")	75mm (3.0")	350kg (771.6 lbs)	374.5kg (825.6 lbs)



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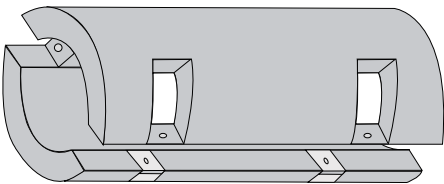
■ Half Shell Bracelet Anode (Tapered End, Welded)



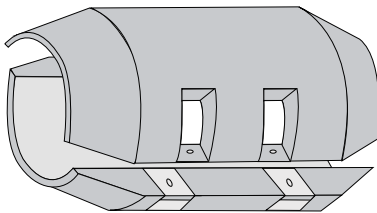
Item No.	Inner Diameter	Length	Thickness	Gap	Net Weight	Gross Weight
YX-AL-BT114	114mm (4.5")	305mm (12.0")	38mm (1.5")	50mm (2.0")	11.0kg (24.3 lbs)	12.5kg (27.6 lbs)
YX-AL-BT141	141mm (5.6")	400mm (15.7")	38mm (1.5")	50mm (2.0")	17.0kg (37.5 lbs)	19.0kg (41.9 lbs)
YX-AL-BT220	220mm (8.7")	410mm (16.1")	65mm (2.6")	50mm (2.0")	44.0kg (97.0 lbs)	46.0kg (101.4 lbs)
YX-AL-BT275	275mm (10.8")	560mm (22.0")	45mm (1.8")	50mm (2.0")	54.0kg (119.0 lbs)	57.0kg (125.7 lbs)
YX-AL-BT325	325mm (12.8")	500mm (19.7")	50mm (2.0")	50mm (2.0")	68.0kg (149.9 lbs)	75.0kg (165.3 lbs)
YX-AL-BT408	408mm (16.1")	510mm (20.1")	45mm (1.8")	50mm (2.0")	78.0kg (172.0 lbs)	84.5kg (186.3 lbs)

MORE CONFIGURATION OPTIONS

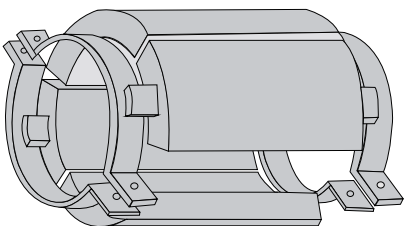
■ Half Shell Bracelet Anode (Square End, Bolted)



■ Half Shell Bracelet Anode (Tapered End, Bolted)



■ Segmented Bracelet Anode (Square End, External Bolted)





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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